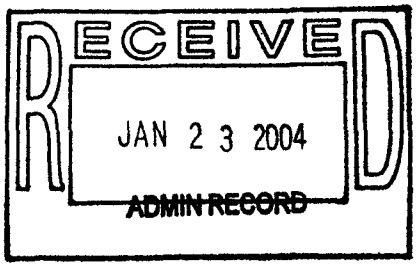
ER RSOP Notification and Closeout Report IHSS Group 700-4

Approval received from the Colorado Department of Public Health and Environment
( )
Approval letter contained in the Administrative Record

January 2004



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ACRONYMS

AL	action level
AOC	Area of Concern
ASD	Analytical Services Division
AST	aboveground storage tank
bgs	below ground surface
BMP	best management practice
CAD/ROD	Corrective Action Decision/Record of Decision
CCA	Configuration Control Authority
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHWA	Colorado Hazardous Waste Act
CMS/FS	Corrective Measures Study/Feasibility Study
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
cu ft	cubic feet
D&D	Decontamination and Decommissioning
DL	detection limit
DOE	U S Department of Energy
DOP	Decommissioning Operations Plan
DQA	Data Quality Assessment
DQO	data quality objective
EPA	U S Environmental Protection Agency
ER	Environmental Restoration
ER RSOP	Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation
ft	feet
FY	Fiscal Year
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
K-H	Kaiser-Hill Company, L L C
KOH	Potassium hydroxide
lb	pound
LCS	laboratory control sample
ug/kg	micrograms per kilogram
ug/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
nCi/g	nanocuries per gram

ACRONYMS

NFAA	No Further Accelerated Action
NLR	No Longer Representative
OPWL	Original Process Waste Lines
OU	Operable Unit
PAC	Potential Area of Concern
PARCCS	precision, accuracy, representativeness, completeness, comparability and sensitivity
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
pCi/L	picocuries per liter
PCOC	potential contaminant of concern
POC	Point of Compliance
POE	Point of Evaluation
QC	quality control
RADMS	Remedial Action Decision Management System
RAO	remedial action objective
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RIN	report identification number
RL	reporting limit
RPD	relative percent difference
RSOP	RFCA Standard Operating Protocol
SAP	Sampling and Analysis Plan
SBD	sample beginning depth
SED	sample end depth
Site	Rocky Flats Environmental Technology Site
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
SWD	Soil Water Database
UBC	Under Building Contamination
UCL	upper confidence limit
V&V	verification and validation
VOC	volatile organic compound
WRW	wildlife refuge worker
XRF	x-ray fluorescence

1.0 INTRODUCTION

This Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol for Routine Soil Remediation (ER RSOP) (DOE 2003a) Notification and Closeout Report for Individual Hazardous Substance Site (IHSS) Group 700-4 at the Rocky Flats Environmental Technology Site (RFETS or Site) in Golden, Colorado includes the following

- A summary of characterization data collection activities conducted at IHSS Group 700-4,
- Notification to remediate soil beneath one tank in IHSS Group 700-4, and
- A description of accelerated action activities at IHSS Group 700-4

IHSS Group 700-4 consists of twenty-three IHSSs, Under Building Contamination (UBC) sites, and Potential Areas of Concern (PACs), as listed in Table 1

The location of IHSS Group 700-4 is shown on Figure 1, and the UBCs, IHSSs, and PACs are shown on Figure 2

1.1 Project History and Report Organization

IHSS Group 700-4 accelerated action project was conducted in collaboration with Decontamination and Decommissioning (D&D) staff Characterization data were collected to determine if remediation was necessary at IHSS Group 700-4 and was scheduled so that the data for UBCs 771 and 774 was available to D&D staff for their decision-making process

Characterization data were collected in accordance with the Industrial Area Sampling and Analysis Plan (IASAP) Addendum #IA-03-01 (DOE 2002) Characterization sampling locations and deviations from the planned sampling locations as described in IASAP Addendum #IA-03-01 (DOE 2002) are presented in Table 2 These data are summarized in tables and maps in Section 2 on Tables 3 through 5 and Figures 3 through 7 These data were evaluated to determine if a soil removal action was warranted The need for a soil removal action is discussed in Section 2 1 1 and as part of the Subsurface Soil Risk Screen (SSRS) in Section 6

Characterization data was discussed with the regulatory agencies through the consultative process Colorado Department of Public Health and Environment (CDPHE) concurred that based on the presented characterization data a soil removal action was not warranted (Appendix A)

The original D&D plan did not include removal of Tanks 14 (Tank 68) and 16 (Tanks 66 and 67) (referred to as Tanks 14 and Tank 16) However, the decision was re-evaluated and tank removal initiated in October, 2003 in accordance with the Building 771 Decommissioning Operations Plan (DOP) (DOE, 2003b) Soil characterization samples were collected after the tanks were removed These data are summarized in Section 2 0, Table 6, and Figure 9 Because a soil removal decision was made based on these data, an ER RSOP Notification was required However, in order to expedite the soil removal

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action, CDPHE agreed that the notification could be included with the Closeout Report and it is included as Section 3

The soil removal action was completed in November 2003 when confirmation sampling data indicated that RFCA requirements were met These data and information are summarized in Section 4, Tables 8 and 9, and on Figure 10

Additionally, other information required by the ER RSOP including disposition of waste (Section 4 1), information on residual contamination (Section 5 0), the Subsurface Soil Risk Screen (SSRS) (Section 6 0), and Stewardship Evaluation (Section 7 0), are also included in this report

Approval of this Closeout Report constitutes regulatory agency approval of the ER RSOP Notification and concurrence of this IHSS Group as a No Further Accelerated Action (NFAA) This information and NFAA determination will be documented in the FY04 Historical Release Report (HRR)

2.0 IHSS GROUP 700-4 ACTIVITIES

IHSS Group 700-4 activities are based on historical knowledge, previously collected analytical data (DOE 1992-2002), and recently collected data that was planned and executed in accordance with the IASAP (DOE 2001a) and IASAP Addendum #IA-03-01 (DOE 2002)

2.1 Site Characterization

Characterization sampling locations and deviations from the planned sampling locations as described in IASAP Addendum #IA-03-01 (DOE 2002) are presented in Table 2 The location of these characterization samples and analytical results greater than background means plus two standard deviations or detection limits (DLs) are shown on Figures 3 through 7 Because of the overlap between IHSS, drains, OPWL, and other features some sampling locations may be plotted on maps with other IHSSs

Analytical results greater than background means plus two standard deviations or DLs are presented in Table 3 Characterization results greater than RFCA Action Levels (ALs) are shown in bold in Table 3 and calculated values, based on high-purity germanium (HPGE) data, are italicized Gamma spectroscopy results were replaced with alpha spectroscopy in Table 3 and on the figures, where available EPA Method 6200 results were replaced with EPA Method 6010 results All gamma spectroscopy and EPA Method 6200 results are retained in the data set on the enclosed data disk

In some instances, the data presented on maps is rounded differently than the data presented in tables However all comparisons to background, DLs, and ALs are accurate and based on the same dataset

RFCA Wildlife Refuge Worker (WRW) and Ecological Receptor AL exceedances are listed in Table 4 and radionuclide sums of ratios (SORs) are listed in Table 5 Tank characterization and confirmation data are discussed in Section 4 0 All project real and quality control data, as of December 17, 2003 are included on the enclosed compact disc

Because consistent database designations are required, the sample depth for UBC samples is designated from beneath the building floor on figures and in tables Actual

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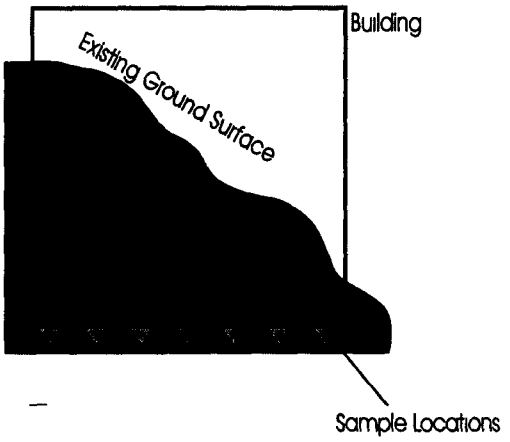
depth is noted in the text when the depth affects project decisions Sample depths at locations outside of building footprints are actual from ground surface Many samples were collected from beneath Buildings 771 and 774 Both buildings are built into a hillside as conceptually illustrated below



2.1.1 Characterization Analytical Results

Characterization samples were collected three separate times at IHSS Group 700-4

1) During a preliminary UBC characterization at UBC 771 (DOE 2001b),

2) In accordance with the IASAP Addendum #IA-03-01 (DOE 2002), and

3) After Tanks 14 and 16 were removed

The results of these characterization activities are briefly described below

Preliminary UBC Characterization Sampling

Analytical results from 16 sampling locations during preliminary characterization (DOE 2001b) of UBC 771 indicate that plutonium-239/240 was present at activities greater than WRW ALs at one location, Location 12 There were no other WRW or AL exceedances These data are presented on Figure 8

IASAP Addendum #IA-03-01 Sampling

Analytical results from samples collected in accordance with IASAP Addendum #IA-03-01 (DOE 2002) are presented in Table 3 and summarized in Table 4 As indicated in Table 4, several analytes are present in soil at concentrations greater than RFCA soil WRW or Ecological Receptor ALs (DOE et al 2003)

Radionuclide exceedances are present beneath Building 771 and 774 at depths beneath building basements Radionuclide exceedances (americium-241 at 116 4 and 1,220 pCi/g and plutonium-239/240 at 1,690 and 943 75 pCi/g) are beneath the Building 774 basement slab It is anticipated that after D&D activities are complete, the building shell will be backfilled and these sampling locations will be at least 6 feet below ground surface (bgs) One radionuclide exceedance of 56 6 pCi/g was detected beneath the

Building 771 basement slab After D&D activities are complete, the building shell will be backfilled and this sampling location will also be at least 6 feet bgs

In accordance with RFCA Attachment 5, the SSRS is used to determine if an accelerated action is required for radionuclide exceedances at a depth of 3 feet or greater The SSRS is discussed in Section 2 2

While the SSRS was conducted to determine whether an accelerated action is required at UBC 774, it is believed that these radionuclide exceedances are the result of contamination carried into the soil sample from the concrete floor for the following reasons

- Analysis by D&D staff indicated 18 5 nCi/g alpha activity in the concrete in the area where elevated radionuclides were detected in the soil,
- Reanalysis of RFCA AL exceedances could not be duplicated, and
- Analytical results from adjacent sampling locations do not indicate RFCA AL exceedances

It is interesting to note that at sampling locations beneath Building 774, the americium-241 to plutonium-239/240 ratio ranges from 0 05 to 1 4 This is in contrast to the Site ratio of 8 08 However, the Site ratio of 8 08 was used to estimate plutonium-239/240 from HPGe detected americium-241 for this project

Several semivolatile organic compounds (SVOCs) were detected in surface soil in IHSS Group 700-4, IHSS 150 2(N) Dibenz(a,h,)anthracene was detected at a concentration greater than the RFCA WRW AL at 5,500 ug/kg at Location CE47-012 Because this is an isolated exceedance, the 95 percent upper confidence limit (UCL) was calculated over the area of concern (AOC) In accordance with the IASAP (DOE 2001a), an action is required when the 95 percent UCL of the mean of the contaminant of concern across the AOC divided by the AL is greater than one The 95 percent UCL of the mean for dibenzo (a,h) anthracene is 1,610 9 across the AOC, and the AL is 3,490 The resulting ratio is 0 462, and action for dibenz (a,h,)anthracene is not indicated

Benzo(a)pyrene was detected in IHSS Group 700-4, at a concentration greater than the RFCA WRW AL at Locations CE47-012 (23,000 ug/kg) and CE48-012 (16,000 ug/kg) in IHSS 150 2(N) Because the benzo(a)pyrene occurrences are isolated exceedances, the 95 percent UCL was calculated over the AOC An action is required when the 95 percent UCL of the mean of the contaminant of concern across the AOC divided by the AL is greater than one The 95 percent UCL of the mean for benzo(a)pyrene is 2,997 8 across the AOC, and the AL is 3,490 ug/kg The resulting ratio is 0 859, and action for benzo(a)pyrene is not indicated

Several other SVOCs (benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene) were detected at concentrations less than RFCA WRW ALs at these and other locations There were no processes at Rocky Flats that used or produced dibenz(a,h,)anthracene, benzo(a)pyrene, or these compounds and they are commonly associated with asphalt While not currently underneath asphalt, isolated areas of asphalt are found in the vicinity of these sampling locations

Arsenic slightly exceeds the WRW AL in several surface soil locations and at one subsurface soil location This is likely due to natural variation in Front Range arsenic background concentrations (Appendix A) Arsenic was detected in IHSS Group 700-4, at a concentration greater than the RFCA WRW AL at three surface soil locations An action is required when the 95 percent UCL of the mean of the contaminant of concern across the AOC divided by the AL is greater than one The 95 percent UCL of the mean for arsenic is 14 3 across the AOC, and the AL is 22 2 mg/kg The resulting ratio is 0 642 and action for arsenic is not indicated The arsenic exceedance in subsurface soil will be addressed through the SSRS (Section 2 2)

Lead exceeds the Ecological Receptor AL in several surface and subsurface soil locations Lead exceedances will be evaluated through the Accelerated Action Ecological Risk Screening process to determine if soil removal actions are necessary

Liquid samples were collected when water was encountered in a borehole at Location CF48-009 (inside Building 771) Analytical results indicate that all contaminant concentrations in the borehole samples were less than RFCA Tier II groundwater ALs, with two exceptions The manganese concentration at Location CF48-009 was 3 mg/L and the Tier II groundwater AL is 1 72 mg/L The bis(2-ethylhexyl)phthalate concentration at Location CF48-009 was 230 ug/L, and the Tier II groundwater AL is 6 ug/L Neither manganese or bis(2-ethylhexyl)phthalate were detected at concentrations greater than background means plus two standard deviations or DLs at surrounding soil sampling locations These groundwater data are further discussed in the Stewardship Evaluation (Section 7 0)

Characterization Results Sums of Ratios

RFCA radionuclide SORs were calculated for IHSS Group 700-4 sampling locations In accordance with RFCA, SOR calculations were based on analytical data for the radionuclides of concern (americium-241, plutonium-239/240, uranium-234, uranium-235, and uranium-238) with concentrations greater than background means plus two standard deviations Table 5 presents the SORs for surface and subsurface soil All SORs are less than one except for Sampling Locations CE47-003, CG48-008 and CG48-009 where WRW AL exceedances are already noted and discussed

SORs, based on DOE-added contaminants, were calculated for non-radionuclide analytes in surface soil and action was not indicated

Tanks 14 and 16 Characterization Results

Characterization samples (Sampling Locations CH48-017, CH48-019 and CH47-018) were collected adjacent to Tanks 14 and 16 southeast of Building 774 Results at these locations (Table 3 and Figure 5) indicated that metals and radionuclides were present at concentrations less than WRW and Ecological Receptor ALs and action was not warranted

Subsequent to the characterization sampling, D&D staff removed Tanks 14 and 16, which were foamed in 1996 (DOE 1996) After the tanks were removed, additional characterization samples were collected in accordance with the IASAP (DOE 2001a) and the IASAP Addendum #IA-03-01 (DOE 2002), and the results of sampling analyses are listed in Table 6 Results greater than RCFA WRW ALs are bolded and those calculated

from HPGe data are italicized Tank characterization sampling results indicated that americium-241 activities ranged from 168 9 pCi/g to 6 115 nCi/g and plutonium-239/240 ranged from 1,367 pCi/g to 49 4 nCi/g at Tank 16 These data indicated that action was required because of the elevated americium-241 and plutonium-239/240 activities at relatively shallow depths Soil sampling results at Tank 14 were less than background means plus two standard deviations or DLs The sampling results indicated that no soil removal was required at Tank 14 Tank characterization sampling locations and results are also shown on Figure 9

2.2 Subsurface Soil Risk Screen Based on Characterization Data

The SSRS follows the steps identified in Figure 3 in Attachment 5 of the RFCA Modification (DOE et al 2003)

Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 WRW Soil Action Levels?

No As shown in Tables 3 and 6, Figures 3 through 7, and Figure 9, americium-241, arsenic, and plutonium-239/240 exceed soil WRW ALs in subsurface soil

At two locations beneath the Building 774 basement, americium-241 and plutonium-239/240 exceed WRW ALs Elevated plutonium-239/240 activities range from 943 to 1,690 pCi/g at UBC774 (Figure 4) Elevated plutonium-239/240 activities range from 56 pCi/g to 157 pCi/g beneath the Building 771 basement (Figures 3 and 8)

Americium-241 activities ranged from 168 9 pCi/g to 6 115 nCi/g and plutonium-239/240 ranged from 1,367 pCi/g to 49 4 nCi/g at Tank 16

Arsenic exceeds the WRW AL at one location southeast of Building 774 (Figure 4) This exceedance is at a depth of 4 5 to 6 5 feet bgs

Screen 2 – Is there a potential for subsurface soil to become surface soil (landslide and erosion areas identified on RFCA Attachment 5 - Figure 1)?

As shown in Figure 1, RFCA Attachment 5, sampling locations beneath the Building 774 basement and southeast of Building 774 are outside the area considered prone to landslides and high erosion Sampling locations beneath the Building 771 basement are in an area that has been mapped as prone to landslides, but Building 771 basements are very deep and it is anticipated that after D&D activities are complete and the area is backfilled these sample locations will be at least 6 feet bgs Additionally, regrading and compacting of the D&D fill will further reduce the likelihood of erosion

Screen 3 – Does subsurface soil radiological contamination exceed criteria in Section 5.3 and Attachment 14?

No Plutonium-239/240 and americium-241 activities are only greater than 3nCi/g below 6 feet in depth Areas with radionuclide activity greater than 50 pCi/g are, or will be, at depths of at least 3 feet bgs Areas with radionuclide activity greater than 3 nCi/g are, or will be, at depths of at least 3 feet bgs

Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standard?

Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by IHSS Group 700-4 soil or structures Migration via erosion is unlikely because elevated plutonium-239/240 and americium-241 will be at least 6 feet bgs after D&D activities are complete At the depth and location within the remaining building structure these exceedances are not likely to be affected by landslides or erosion However, the tanks were in a location where erosion could occur At the two locations beneath the Building 771 basement, where erosion is likely, the exceedances will be at least 6 feet bgs after D&D backfilling, reducing the likelihood of erosion

Surface water monitoring results do not indicate activities of plutonium-239/240 or americium-241 greater than RFCA surface water ALs in surface water The closest Point of Compliance (POC) is GS11 and it is located approximately 6,000 feet to the east of IHSS Group 700-4 There are no recent results from this POC because there have been no recent flows to measure The closest Point of Evaluation (POE) is SW093, which is located approximately 1,000 feet northeast of IHSS Group 700-4 Water leaving the Industrial Area (IA) and entering the A-Series Ponds and North Walnut Creek is monitored at this location Results (30-day averages) indicate that radionuclides are less than RFCA surface water ALs

Gauging station SW120 is approximately 700 feet to the northeast of IHSS Group 700-4 This station is a performance monitoring station in support of D&D activities for the Building 771/774 area Gauging station GS44 is located approximately 100 feet west of IHSS Group 700-4 and is designed to monitor runoff from the western side of Building 771, including footing drain water Recent analytical results from SW120 and GS44 indicate americium-241, plutonium-239/240, total uranium, beryllium, cadmium (dissolved), chromium, and silver (dissolved) are less than RFCA ALs and standards Additionally, arsenic concentrations are well below RFCA ALs and standards at SW 120 and GS44 The COCs of interest at IHSS Group 700-4 are summarized in Table 7

Current groundwater monitoring results from D&D wells around UBC 771 and 774 indicate that carbon tetrachloride, chloroform, and tetrachloroethylene are greater than RFCA Tier II groundwater ALs both upgradient (Well 18199) and cross gradient (Well 20998) of the UBCs The source for this contamination is IHSS 118 1 (IHSS Group 700-3) (DOE 2002) which is also the source for exceedances at Well 20998 Neither carbon tetrachloride nor chloroform were detected at concentrations greater than RFCA groundwater ALs down gradient of IHSS Group 700-4 These analytes were not detected in soil samples from IHSS Group 700-4, and groundwater VOC contamination is not easily attributed to IHSS Group 700-4

Manganese was detected at concentrations slightly greater than the RFCA Tier II groundwater AL and bis(2-ethylhexyl)phthalate was detected at concentrations greater than the RFCA Tier II groundwater AL beneath Building 771 These analytes are not detected at nearby soil sampling locations

Current data do not indicate that IHSS Group 700-4 soil and structures are affecting groundwater or surface water However, after Buildings 771 and 774 have undergone the D&D process and drains are no longer functioning, groundwater will join the rest of the water table where the potential exists for changes in concentrations This may result in future Stewardship actions Monitoring wells around the area will continue to be

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sampled as part of the Integrated Monitoring Program (IMP) Further groundwater evaluation will be part of the groundwater plume remedial decision and future Sitewide evaluation

Screen 5 – Are COC concentrations below Table 3 Action Levels for Ecological Receptors?

No Arsenic exceeds the Ecological Receptor ALs at one location in IHSS Group 700-4, southeast of Building 774 Lead exceeds the Ecological Receptor AL at two locations All other subsurface COC concentrations are below the ALs for Ecological Receptors Ecological factors will be evaluated in the Accelerated Action Ecological Screening Process and the CRA

2.3 Characterization Summary

Based on analytical results and the SSRS, action was required at Tank 16 Based on analytical results and the SSRS, action was not required at other areas in IHSS Group 700-4 because of the following

- In accordance with RFCA, an action is required at Tank 16 because the americium-241 and plutonium-239/240 activities exceed the WRW AL within 3 feet of the surface

- In accordance with RFCA, action is not required for elevated radionuclide concentrations beneath the Building 771 and 774 basements because after D&D activities are complete these locations will be at least 6 feet bgs

- The section of Original Process Waste Lines (OPWL) that exits Building 771 and runs due west is in the area of the locations that have SVOC concentrations in excess of three times the AL These locations are being transferred to IHSS Group 000-2 where they will become part of the OPWL removal action at Line P-23 and will be addressed in closure of that IHSS Group

- Migration of subsurface contaminants to surface water through erosion is unlikely because the exceedances are either not in an area prone to landslides or erosion or after D&D activities are complete will be at least 6 feet bgs

- Migration of contaminants in groundwater will not likely impact surface water because of the low levels or depth of soil contamination found in IHSS Group 700-4 The groundwater contamination is considered part of the IA Plume, which will be further evaluated in a Sitewide groundwater Interim Measure/Interim Remedial Action (IM/IRA)

3.0 ER RSOP NOTIFICATION

Benzo(a)pyrene and dibenz(a,h)anthracene were detected at concentrations greater than the WRW ALs However, based on the 95 percent UCL/AL calculation, action is not required These locations are being transferred to IHSS Group 000-2 where they will become part of the OPWL removal action at Line P-23 and will be addressed in closure

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of that IHSS Group Soil removal will be conducted in accordance with the ER RSOP Notification 03-14

D&D staff removed Tanks 14 and 16, southeast of Building 774 which had been foamed in 1996 (DOE 1996) Characterization samples were collected adjacent to the tanks and after the tanks were removed, additional characterization samples were collected The results of sampling analyses are listed in Table 6 Tank characterization sampling results indicated that americium-241 activities ranged from 168 9 pCi/g to 6 115 nCi/g and plutonium-239/240 ranged from 1,367 95 pCi/g to 49 4 nCi/g at Tank 16 Soil sampling results at Tank 14 were less than background means plus two standard deviations or DLs The sampling results indicated that soil removal was required at Tank 16 only Sampling locations and results are shown on Figure 9

This ER RSOP Notification includes the remediation plan and the data that support removal activities Because this Notification is combined with the Closeout Report, the Stewardship Evaluation is conducted for the Closeout Report only The characterization SSRS is documented in Section 2 2

3.1 Remediation Plan

This RSOP Notification remediation plan for IHSS Group 700-4 includes the following objectives

- Remove fill and contaminated soil with radionuclide activities greater than RFCA WRW ALs in accordance with RFCA Attachment 5 at Tank 16 (DOE et al, 2003),
- Collect confirmation samples in accordance with the IASAP (DOE 2001a), and
- Backfill the excavation with clean fill, and then grade the area

It is anticipated that after remediation there will be areas at the site with radionuclide activities greater than background means plus two standard deviations but less than the RFCA ALs

4.0 REMOVAL ACTIVITIES

In accordance with the Building 771 DOP (DOE 2003b), Tanks 14 and 16 east of Building 774 were removed by D&D staff Removal activities included the following

- Interior tank foam was removed,
- Incidental water from tanks was removed,
- Tank walls were removed, and
- Broken pieces of foam from tank bottoms were removed

Tank walls, floors, and contents were disposed of after waste characterization Additional information on tank removal and disposal will be available in the D&D closure report

Waste characterization samples, collected by the D&D staff from inside Tank 67, indicated that beryllium was present at concentrations 4 2 mg/L Waste concrete and

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foam were analyzed for volatile organic compounds (VOCs) and analytical results indicated that VOCs were not detected in the waste Additional waste characterization results will be available in the D&D closure report

After tanks were removed, three soil samples were collected from beneath the tanks One sample (CH48-027) was collected from beneath Tank 14 and two samples (CG48-025 and CH48-026) were collected from beneath the two tanks listed as Tank 16 Analytical results from these samples are listed in Table 6 and shown on Figure 9 Tank characterization results indicated that americium-241 activities ranged from 168 9 pCi/g to 6 115 nCi/g and plutonium-239/240 ranged from 1,367 95 pCi/g to 49 4 nCi/g at Tank 16 All analytical results from CH48-027 (Tank 14) were less than DLs, except for molybdenum and silver, which were well below background values

Approximately 2,112 cubic feet (ft^3) of soil and fill with radionuclide contamination were removed from beneath Tank 16 in November 2003 Confirmation samples were collected at 6 locations Additionally, one sample (CH48-050) was collected from beneath Tank 14 even though no soil removal was conducted The results of these analyses are presented in Table 8 and on Figure 10, and the radionuclide SORs for these confirmation samples are listed in Table 9 Americium-241 activities ranged from 6 57 to 226 pCi/g and plutonium-239/240 activities ranged from 5 68 to 179 38 pCi/g Combined activities at all locations were less than 1 nCi/g and significantly less than the RFCA specified limit of 3 nCi/g at this depth (approximately 4 feet) beneath Tank 16 SORs are greater than 1 for sampling locations CH48-043, CH48-044, and CH48-045 However, action is not indicated because, in accordance with RFCA, the soil was removed to an activity of less than 1 nCi/g

Residual contamination in the area where confirmation sampling was conducted, including the area around Tank 14 and Tank 16, is displayed on Figure 10 Residual contamination around the other IHSSs, PACs, and UBCs are shown on Figures 3, 4, 5, 6, 7, and 8 In these areas, the residual contamination is defined by the characterization data

Accelerated action sampling is summarized in Table 10 and summary statistics for the entire project are summarized in Tables 11 and 12 There were no deviations from the ER RSOP (DOE 2003a)

4.1 Waste Management

Waste from the IHSS Group 700-4 accelerated action consisted of fill material and soil Approximately 2,112 ft^3 of low-level waste was generated during this accelerated action Waste types, volumes, and disposition are presented in Table 13

Excavated soil was loaded into waste crates at the excavation site Samples were collected from the soil stockpiles to determine the final disposition of the excavated soil

4.2 Site Reclamation

All excavated areas were backfilled after confirmation sampling results were received and discussed with regulatory agencies through the consultative process (Appendix A) Final backfilling and reseeding at the former Tanks 14 and 16 locations will follow final regrading of the Buildings 771 and 774 areas

4.3 Accelerated Action Goals

ER RSOP Notification accelerated action objectives for IHSS Group 700-4 were achieved through the removal of soil and fill material to satisfy RFCA Attachment 5 requirements

Removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives (RAOs) for RFETS soil This contribution is described below

RAO 1 Provide a remedy consistent with the RFETS goal of protection of human health and the environment Removal of soil and fill material with contaminant concentrations greater than RFCA WRW ALs contributed to the protection of human health and the environment because potential sources of contamination were removed

RAO 2 Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls Removal of soil and fill material with contaminant concentrations greater than RFCA WRW ALs minimizes the need for long-term maintenance and institutional or engineering controls because potential sources of contamination were removed

RAO 3 Minimize the spread of contaminants during implementation of accelerated actions Best management practices (BMPs) were used to prevent the spread of contaminants during the accelerated action Air monitoring data during the accelerated action did not indicate any exceedances

5.0 POST-REMEDIATION CONDITIONS

Residual contaminant concentrations at Tanks 14 and 16, consisting of characterization and confirmation sampling locations greater than background means plus two standard deviations or DLs at IHSS Group 700-4 are shown on Figure 10

The following conditions currently exist at IHSS Group 700-4

- The potential source of contamination that had existed at IHSS Group 700-4 (i e , the plutonium-239/240 and americium-241 hot spot beneath Tank 16) was removed to an activity of less than 1 nCi/g and covered to grade with 4 feet of clean fill,
- Surface soil contaminant concentrations greater than WRW ALs include arsenic, benzo(a)pyrene and dibenzo(a,h)anthracene,
- Surface soil contaminant concentrations greater than background means plus two standard deviations or DLs includes metals, SVOCs, and radionuclides in soil surrounding Buildings 771 and 774, and
- Subsurface soil contaminant concentrations greater than RFCA WRW ALs includes arsenic at a depth of 4 5 to 6 5 feet bgs southeast of Building 774, radionuclides beneath UBC 774 that will be at a depth of at least 6 feet bgs after D&D activities are complete and beneath UBC 771 that will be at a depth of at least 6 feet bgs after D&D activities are complete, and beneath Tank 16 at a depth of approximately 4 feet bgs

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5.1 No Longer Representative Sampling Locations

Sampling locations that are No Longer Representative (NLR) include the Tank 16 characterization sampling locations and one sampling location directly east of Tank 16 NLR sampling locations are listed in Table 14

6.0 POST-ACCELERATED ACTION SUBSURFACE SOIL RISK SCREEN

The SSRS follows the steps identified in Figure 3 in Attachment 5 of the RFCA Modification (DOE et al 2003)

Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 WRW Soil Action Levels?

No As shown in Tables 4 and 12 and Figures 3 through 7 and Figure 10, americium-241, arsenic, and plutonium-239/240 exceed soil WRW ALs in subsurface soil

At two locations beneath the Building 774 basement americium-241 and plutonium-239/240 exceed WRW ALs Elevated plutonium-239/240 activities range from 943 to 1,690 pCi/g at UBC774 (Figure 4) Elevated plutonium-239/240 activities range from 56 pCi/g to 157 pCi/g beneath the Building 771 basement (Figures 3 and 8)

Arsenic exceeds the WRW AL at one location southeast of Building 774 (Figure 4) This exceedance is at a depth of 4 5 to 6 5 feet bgs

Americum-241 and plutonium-239/240 exceeded WRW ALs beneath Tank 16, southeast of Building 774 However after the accelerated action radionuclide activity beneath Tank 16 is less than 1 nCi/g

Screen 2 – Is there a potential for subsurface soil to become surface soil (landslide and erosion areas identified on RFCA Attachment 5 - Figure 1)?

As shown in Figure 1, RFCA Attachment 5, sampling locations beneath the Building 774 basement and southeast of Building 774 are outside the area considered prone to landslides and high erosion Sampling locations beneath the Building 771 basement are in an area that has been mapped as prone to landslides, but Building 771 basements are very deep and it is anticipated that after D&D activities are complete and the area is backfilled these sample locations will be at least 6 feet bgs Additionally, regrading and compacting of the D&D fill will further reduce the likelihood of erosion

Screen 3 – Does subsurface soil radiological contamination exceed criteria in Section 5.3 and Attachment 14?

No Plutonium-239/240 and americium-241 activities are only greater than 3nCi/g below 6 feet in depth Areas with radionuclide activity greater than 50 pCi/g are or will be at depths of at least 3 feet bgs Areas with radionuclide activity greater than 1 nCi/g are or will be at depths of at least 3 feet bgs

Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standard?

Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by IHSS Group 700-4 soil or structures Migration via erosion is unlikely because elevated plutonium-239/240 and americium-241 will be at

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least 6 feet bgs after D&D activities are complete At the depth and location within the remaining building structure these exceedances are not likely to be affected by landslides or erosion However, the tanks were in a location where erosion could occur At the two locations beneath the Building 771 basement, where erosion is likely, the exceedances will be at least 6 feet bgs after D&D backfilling, reducing the likelihood of erosion

Surface water monitoring results do not indicate activities of plutonium-239/240 or americium-241 greater than RFCA surface water ALs The closest POC is GS11 and it is located approximately 6,000 feet to the east of IHSS Group 700-4 There are no recent results from this POC because there have been no recent flows to measure The closest POE is SW093, which is located approximately 1,000 feet northeast of IHSS Group 700-4 Water leaving the IA and entering the A-Series Ponds and North Walnut Creek is monitored at this location Results (30-day averages) indicate that radionuclides are less than RFCA surface water ALs

Gauging station SW120 is approximately 700 feet to the northeast of IHSS Group 700-4 This station is a performance monitoring station in support of D&D activities for the Building 771/774 area Gauging station GS44 is located approximately 100 feet west of IHSS Group 700-4 and is designed to monitor runoff from the western side of Building 771, including footing drain water Recent analytical results from SW120 and GS44 indicate americium-241, plutonium-239/240, total uranium, beryllium, cadmium (dissolved), chromium, and silver (dissolved) are less than RFCA ALs and standards Additionally, arsenic concentrations are well below RFCA ALs and standards at SW 120 and GS44 The COCs of interest at IHSS Group 700-4 are summarized in Table 7

Current groundwater monitoring results from D&D wells around UBC 771 and 774 indicate that carbon tetrachloride, chloroform, and tetrachloroethylene are greater than RFCA Tier II groundwater ALs both upgradient (Well 18199) and cross gradient (Well 20998) of the UBCs The source for this contamination is IHSS 118 1 (IHSS Group 700-3) (DOE 2002) which is also the source for exceedances at Well 20998 Neither carbon tetrachloride nor chloroform were detected at concentrations greater than RFCA groundwater ALs down gradient of IHSS Group 700-4 These analytes were not detected in soil samples from IHSS Group 700-4, and groundwater VOC contamination is not easily attributed to IHSS Group 700-4

Manganese was detected at concentrations slightly greater than the RFCA Tier II groundwater AL and bis(2-ethylhexyl)phthalate was detected at concentration greater than the RFCA Tier II groundwater AL beneath Building 771 As discussed above, these analytes are not detected at nearby soil sampling locations

Current data do not indicate that IHSS Group 700-4 soil and structures are affecting groundwater or surface water However, after Buildings 771 and 774 have undergone the D&D process and drains are no longer functioning, groundwater will join the rest of the water table where the potential exists for changes in concentrations This may result in future Stewardship actions Monitoring wells around the area will continue to be sampled as part of the IMP Further groundwater evaluation will be part of the groundwater plume remedial decision and future Sitewide evaluation

Screen 5 – Are COC concentrations below Table 3 Action Levels for Ecological Receptors?

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No Arsenic exceeds the Ecological Receptor AL at one location in IHSS Group 700-4, southeast of Building 774 Lead exceeds Ecological Receptor ALs at several locations All other subsurface COC concentrations are below the ALs for Ecological Receptors Ecological factors will be evaluated in the Accelerated Action Ecological Screening Process and the CRA

6.1 Post-Accelerated Action Summary

Based on analytical results and the SSRS, further action is not required, and an NFAA determination is justified for IHSS Group 700-4 because of the following

- The potential source of contamination that had existed at IHSS Group 700-4 (i e , the plutonium-239/240 and americium-241 hot spot beneath Tank 16) was removed to an activity of less than 1 nCi/g and covered to grade with 4 feet of clean fill,
- Subsurface soil contaminant concentrations greater than RFCA WRW ALs includes arsenic at a depth of 4 5 to 6 5 feet bgs southeast of Building 774, radionuclides beneath UBC 771 and 774 that will be at a depth of at least 6 feet bgs after D&D activities are complete, and beneath Tank 16 at a depth of approximately 4 feet bgs,
- The section of OPWL that exits Building 771 and runs due west is in the area of the locations that have SVOC concentrations in excess of 3 times the AL These locations are being transferred to IHSS Group 000-2 where they will become part of the OPWL removal action at Line P-23 and will be addressed in closure of that IHSS Group
- Migration of subsurface contaminants to surface water through erosion is unlikely because the locations with results greater than WRW ALs will be well below the ground surface (at least 6 feet at Buildings 771 and 774) after D&D actions are complete, and
- Migration of contaminants from groundwater to surface water is unlikely because although there is groundwater contamination in the area, the most likely source is IHSS Group 700-3 (IHSS 118 1) The groundwater contamination is considered part of the IA Plume, which will be further evaluated in a Sitewide groundwater IM/IRA After Buildings 771 and 774 have undergone the D&D process and building drains are no longer functioning, groundwater will join the rest of the water table where the potential exists for elevated concentrations This may result in future Stewardship actions

Approval of this Closeout Report constitutes regulatory agency concurrence that this IHSS Group is an NFAA site This information and the NFAA determination will be documented in the FY04 HRR

7.0 STEWARDSHIP EVALUATION

This stewardship evaluation, applicable to the entire IHSS Group 700-4 is documented in the following sections The regulatory agencies were informed through frequent project updates, e-mails, telephone contacts, and personal contacts throughout the project duration Copies of these documents are in Appendix A

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7.1.1 Current Site Conditions

As discussed in Section 3 0, the accelerated action at IHSS Group 700-4 consisted of removal of soil with americium-241 and plutonium-239/240 activities greater than RFCA WRW ALs beneath Tank 16 Section 5 0 presents residual contamination information

The following conditions currently exist at IHSS Group 700-4

- The potential source of contamination that had existed at IHSS Group 700-4 (i e , the plutonium-239/240 and americium-241 hot spot beneath Tank 16) was removed to an activity of less than 1 nCi/g and covered to grade with 4 feet of clean fill,
- Surface soil contaminant concentrations greater than WRW ALs include arsenic, benzo(a)pyrene, and dibenzo(a,h)anthracene,
- The section of OPWL that exits Building 771 and runs due west is in the area of the locations that have SVOC concentrations in excess of three times the AL These locations are being transferred to IHSS Group 000-2 where they will become part of the OPWL removal action at Line P-23 and will be addressed in closure of that IHSS Group
- Surface soil contaminant concentrations greater than background means plus two standard deviations or DLs includes metals, SVOCs, and radionuclides in IHSS soil surrounding Buildings 771 and 774, and
- Subsurface soil contaminant concentrations greater than RFCA WRW ALs includes arsenic at a depth of 4 5 to 6 5 feet bgs southeast of Building 774, radionuclides beneath UBC 771 and 774 that will be at a depth of at least 6 feet bgs after D&D activities are complete, and beneath Tank 16 at a depth of approximately 4 feet bgs

7.1.2 Near-Term Management Recommendations

The accelerated action for IHSS Group 700-4 met the accelerated action objectives Contaminant concentrations in soil remaining at IHSS Group 700-4 do not trigger any further accelerated action based on RFCA Additionally, SVOC exceedances were transferred to IHSS Group 000-2 Excavations were backfilled to current grade This area as well as Buildings 771 and 774 will be backfilled after D&D activities are complete Final grade in this area will be at least the same as current grade, if not higher

Because AL exceedances still exist at this site, groundwater and surface water monitoring will continue as part of the IMP Groundwater will be further evaluated in a Sitewide groundwater IM/IRA

Potential contaminant sources and pathways have been removed, mitigated, or found not to have existed Excavation at the site will continue to be controlled through the Site soil disturbance permit process Access will be restricted to minimize disturbance to newly revegetated areas Site access and security controls and the soil disturbance permit process will remain in place pending the implementation of long-term controls No other near-term management techniques are required because of environmental conditions

Because SVOCs WRW AL exceedances are along OPWL P-23, additional removal actions will be evaluated as part of IHSS Group 000-2 activities

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7.1.3 Long-Term Stewardship Recommendations

Residual SVOC and metal contamination in surface soil and metal and radionuclide contamination in subsurface soil will be analyzed in the Sitewide Comprehensive Risk Assessment (CRA), which is part of the RCRA Facility Investigation/Remedial Investigation and Corrective Measures Study/Feasibility Study (RFI/RI and CMS/FS) that will be conducted for the Site The need for and extent of any, more general, long term stewardship activities will also be analyzed in the RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site Institutional controls and other long term stewardship requirements for Rocky Flats will ultimately be contained in a Corrective Action Decision/Record of Decision (CAD/ROD), in any post-closure Colorado Hazardous Waste Act permit that may be required, and in any post-RFCA agreement

No specific long term stewardship activities are recommended for IHSS Group 700-4 beyond the generally applicable Site requirements that may be imposed on this area in the future, which are dependent upon the final remedy selected Institutional controls that will be used as appropriate for this area include prohibitions on construction of buildings in the IA, restrictions on excavation or other soil disturbance, or prohibitions on groundwater pumping in the area of IHSS Group 700-4

No specific engineered controls are anticipated as a result of the conditions remaining in IHSS Group 700-4

This closeout report and associated documentation will be retained as part of the Rocky Flats administrative record file These specific long-term stewardship recommendations will also be summarized in the Rocky Flats Long-Term Stewardship Strategy

7.1.4 Accelerated Action Stewardship

Stewardship actions that were implemented during the accelerated action included air monitoring, posting signs and barriers, including yellow chain and jersey barriers

8.0 DATA QUALITY ASSESSMENT

The Data Quality Objectives (DQOs) for this project are described in the IASAP (DOE 2001a) All DQOs for this project were achieved based on the following

- Regulatory agency approved sampling program design (IASAP Addendum #03-01 [DOE 2002),
- Collection of samples in accordance with the sampling design, and
- Results of the Data Quality Assessment as described in the following sections

8.1 Data Quality Assessment Process

The DQA process ensures that the type, quantity and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements

- EPA QA/G-4, 1994a, Guidance for the Data Quality Objective Process,

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- EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, and
- DOE Order 414 1A, 1999, Quality Assurance

Verification and validation (V&V) of the data are the primary components of the DQA The final data are compared with original project DQOs and evaluated with respect to project decisions, uncertainty within the decisions, and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) Validation criteria are consistent with the following RFETS-specific documents and industry guidelines

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,
- EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, and
- Kaiser-Hill Company, L L C (K-H) V&V Guidelines
  - General Guidelines for Data Verification and Validation, DA-GR01-v1, 2002a
  - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, 2002b
  - V&V Guidelines for Volatile Organics, DA-SS01-v1, 2002c
  - V&V Guidelines for Semivolatile Organics, DA-SS02-v1, 2002d
  - V&V Guidelines for Metals, DA-SS05-v1, 2002e
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5

This report will be submitted to the Comprehensive Environmental, Response, Compensation and Liability Act (CERCLA) Administrative Record (AR) for permanent storage 30 days after being provided to CDPHE and/or U S EPA

8.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly The V&V process defines the criteria that constitute data quality, namely PARCCS parameters Data traceability and archival are also addressed V&V criteria include the following

- Chain-of-custody,
- Preservation and hold-times,

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- Instrument calibrations,
- Preparation blanks,
- Interference check samples (metals),
- Matrix spikes/matrix spike duplicates (MS/MSD),
- Laboratory control samples (LCS),
- Field duplicate measurements,
- Chemical yield (radiochemistry),
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively), and
- Sample analysis and preparation methods

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i e , within tolerances acceptable to the project) Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records

Raw hardcopy data (e g , individual analytical data packages) are currently filed by RIN and are maintained by Kaiser-Hill Analytical Services Division, older hardcopies may reside in the Federal Center in Lakewood, Colorado Electronic data are stored in the RFETS Soil and Water Database

QC data, as of November 11, 2003 are included on the enclosed CDs

8.2.1 Accuracy

The following measures of accuracy were evaluated

- Laboratory Control Sample Evaluation,
- Surrogate Evaluation,
- Field Blanks, and
- Sample Matrix Spike Evaluation

Results are compared to method requirements and project goals The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions Particular attention is paid to those values near ALs when quality control (QC) results could indicate unacceptable levels of uncertainty for decision-making purposes

Laboratory Control Sample Evaluation

The frequency of LCS measurements, relative to each laboratory batch, is presented in Table 15 LCS frequency was adequate based on at least one LCS per batch The minimum and maximum LCS results are also tabulated, by chemical, for the entire project While not all LCS results are within tolerances, project decisions based on AL exceedances were not affected LCS results that were outside of tolerances were

reviewed to determine whether a potential bias might be indicated LCS recoveries are not indicative of matrix effects since they are not prepared using Site samples LCS results do indicate whether the laboratory may be introducing a bias in the results Recoveries reported above the upper limit may indicate the actual sample results are less than reported Since this is environmentally conservative, no further action is needed The analytes with unacceptable low recoveries were evaluated If the highest sample result is less than the AL divided by the lowest LCS recovery for that analyte, no further action is taken because any indicated bias is not great enough to make a falsely low sample result be above the AL As a result of these analyses, the LCS recoveries for this project did not impact project decisions

Any qualifications of results due to LCS performance exceeding upper or lower tolerance limits are captured in the V&V flags, described in the Completeness Section

Surrogate Evaluation

The frequency of surrogate measurements, relative to each laboratory batch, is given in Table 16 Surrogate frequency was adequate based on at least one set per sample The minimum and maximum surrogate results are also tabulated, by chemical, for the entire project Surrogates are added to every sample, and therefore, surrogate recoveries only impact individual samples Unacceptable surrogate recoveries can indicate potential matrix effects The highest and lowest surrogate recoveries for this project were reviewed and the associated samples results were not near enough to the action limit to indicate project decisions would be impacted Any qualifications of results due to surrogate results are captured in the V&V flags, described in the Completeness Section

Field Blank Evaluation

Results of the field blank analyses are given in Table 17 Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples When the real result is less than 10 times the blank result for laboratory contaminants and 5 times the result for non-laboratory contaminants, the real result is eliminated None of the chemicals detected in blanks were detected at concentrations greater than ALs, therefore no significant blank contamination is indicated

Sample Matrix Spike Evaluation

The frequency of MS measurements, relative to each laboratory batch, was adequate based on at least one MS per batch The minimum and maximum of MS results are summarized by chemical, for the entire project in Table 18 Organic analytes with unacceptable low recoveries resulted in a review of the LCS recoveries According to the EPA data validation guidelines, if organic matrix spike recoveries are low, then the LCS recovery is to be checked and, if acceptable, no action is to be taken For this project, these checks indicate no decisions were impacted for organic analytes For inorganics, the associated sample results were divided by the lowest percent recovery for each analyte If the resulting number is less than the AL, decisions were not impacted, so no action was taken For this project, all results were acceptable, however, aluminum, iron and manganese had 0% recovery as a low For these analytes, the AL was at least a factor of three times higher than the highest sample result, so no decisions were impacted

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While some of the recoveries appear to be low, they would not result in rejection of data that affects the project decision

8.2.2 Precision

Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSD Adequate frequency of MSD measurements is indicated by at least one MSD in each laboratory batch Table 19 indicates that MSD frequencies were adequate The analytes with the highest RPDs were reviewed by comparing the highest sample result to the AL If the highest samples were sufficiently below the AL, no further action is needed For this project, the reviews indicated decisions were not impacted While some of the recoveries appear to be low, they would not result in rejection of data that affects the project decision

Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent Table 20 indicates that sampling frequencies were adequate

The RPDs listed in Table 21, indicate how much variation exists in the field duplicate analyses The EPA data validation guidelines state that "there are no required review criteria for field duplicate analyses comparability" For the DQA, the highest Max RPDs were reviewed The highest sample amount for those analytes were corrected for the associated RPD and the resulting number was compared to the AL For this project, none of the corrected numbers were greater than the AL, so project decisions were not impacted

Completeness

Based on original project DQOs, a minimum of 25 percent of ER Program analytical (and radiological) results must be formally verified and validated Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements Table 22 shows the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analyte group Gamma spectroscopy validation is listed as 12 percent, however, 84 8 percent of the alpha spectroscopy results were validated Because the frequency of validation is within project quality requirements and in compliance with the RFETS validation goal of 25 percent of all analytical records the results indicate that these data are adequate

8.2.3 Sensitivity

Reporting limits, in units of ug/kg for organics, mg/kg for metals, and pCi/g for radionuclides, were compared with proposed RFCA WRW and Ecological Receptor ALs Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions expect those listed in Table 23 "Adequate" sensitivity is defined as a reporting limit less than an analyte's associated AL, typically less than one-half the AL The reported DLs for uranium-235 at two locations were greater than the AL Estimated

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results for both of these analytes were several orders of magnitude less than the DL and did not therefore affect project decisions

8.3 Summary of Data Quality

The RPDs greater than 35 percent indicate that the sampling precision limits for some analytes has been exceeded However, the imprecision does not affect project decisions because the only non-radionuclide WRW AL exceedances is arsenic The arsenic RPD was less than 35 percent, and does not affect project decisions One metal record out of 828 records was rejected This rejection did not affect project decisions Uranium-235 DLs were slightly greater than the AL at two locations Because the estimated detection was several orders of magnitude less than the DL, project decisions were not affected Compliance with the project quality requirements and RFETS validation goal of 25 percent of all analytical records indicates that these data are adequate If additional V&V information is received, IHSS Group 700-4 records will be updated in the Soil Water Database Data qualified as a result of additional data will be assessed as part of the Comprehensive Risk Assessment process Data collected and used for IHSS Group 700-4 is adequate for decision-making

9.0 PROJECT NFAA SUMMARY

Based on analytical results and the SSRS, further action is not required, and an NFAA determination is justified for IHSS Group 700-4 because of the following

- The potential source of contamination that had existed at IHSS Group 700-4 (i e , the plutonium-239/240 and americium-241 hot spot beneath Tank 16) was removed to an activity of less than 1 nCi/g and covered to grade with 4 feet of clean fill,
- Subsurface soil contaminant concentrations greater than RFCA WRW ALs includes arsenic at a depth of 4 5 to 6 5 feet bgs southeast of Building 774, radionuclides beneath UBC 771 and 774 that will be at a depth of at least 6 feet bgs after D&D activities are complete, and beneath Tank 16 at a depth of approximately 4 feet bgs
- The section of OPWL that exits Building 771 and runs due west is in the area of the locations that have SVOC concentrations in excess of 3 times the AL These locations are being transferred to IHSS Group 000-2 where they will become part of the OPWL removal action at Line P-23 and will be addressed in closure of that IHSS Group
- Migration of subsurface contaminants to surface water through erosion is unlikely because the locations with results greater than WRW ALs will be well below the ground surface (at least 6 feet at Buildings 771 and 774) after D&D actions are complete, and
- Migration of contaminants from groundwater to surface water is unlikely because although there is groundwater contamination in the area, the most likely source is IHSS Group 700-3 (IHSS 118 1) The groundwater contamination is considered part of the IA Plume, which will be further evaluated in a Sitewide groundwater IM/IRA After Buildings 771 and 774 have undergone the D&D process and building drains

are no longer functioning, groundwater will join the rest of the water table where the potential exists for elevated concentrations This may result in future Stewardship actions

Approval of this Closeout Report constitutes regulatory agency concurrence that this IHSS Group is an NFAA site This information and the NFAA determination will be documented in the FY04 HRR

10.0 REFERENCES

DOE, 1996, Completion Report for the Underground Storage Tanks Source Removal Project, Rocky Flats Environmental Technology Site, Golden, Colorado, September

DOE, 1992-2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado, June

DOE, 2001a, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June

DOE, 2001b, Building 771 Phase 1 Under Building Contamination Characterization Sampling Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September

DOE, 2002, Industrial Area Sampling and Analysis Plan Addendum #IA-03-01, Rocky Flats Environmental Technology Site, Golden, Colorado, December

DOE, 2003a, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation, Modification 1, Rocky Flats Environmental Technology Site, Golden, Colorado, September

DOE, 2003b, 771 Closure Project Decommissioning Operation Plan, Modification 5, Rocky Flats Environmental Technology Site, Golden, Colorado, August

DOE, CDPHE, and EPA, 2003, Modifications to the Rocky Flats Cleanup Agreement Attachment, U S Department of Energy, Colorado Department of Public Health and Environment, and U S Environmental Protection Agency, Rocky Flats Environmental Technology Site, Golden, Colorado, June

LIST OF TABLES

Table 1
IHSS Group 700-4

IHSS/PAC/UBC Site	Description
UBC 771	Plutonium and Americium Recovery Operations
UBC 774	Liquid Process Waste Treatment
700-150 2(N)	Radioactive Site West of Buildings 771/776
700-163 1	Radioactive Site 700 North of Building 774 (Area 3) Wash Area
700-163 2	Radioactive Site 700 Area 3 Americium (Am) Slab
700-215	Abandoned Sump Near Building 774 Unit 55 13 T-40
700-139(N)(b)	Hydroxide Tank, KOH, NaOH Condensate
700-124 1	30,000-Gallon Tank (68)
700-124 2	14,000-Gallon Tank (66)
700-124 3	14,000-Gallon Tank (67)
700-125	Holding Tank
700-126 1	Westernmost Out-of-Service Process Waste Tank
700-126 2	Easternmost Out-of-Service Process Waste Tank
000-121	Tank 8 – Original Process Waste Line (OPWL) - East and West Process Tanks
000-121	Tank 12 - OPWL - Two Abandoned 20,000-Gallon Underground Concrete Tanks
000-121	Tank 13 - OPWL - Abandoned Sump - 600 Gallons
000-121	Tank 14 - OPWL - 30,000-Gallon Concrete Underground Storage Tank (68)
000-121	Tank 15 - OPWL - Two 7,500-Gallon Process Waste Tanks (34W, 34E)
000-121	Tank 16 - OPWL - Two 14,000-Gallon Concrete Underground Storage Tanks (66, 67)
000-121	Tank 17 - OPWL - Four Concrete Process Waste Tanks (30, 31, 32, 33)
000-121	Tank 36 - OPWL - Steel Carbon Tetrachloride Sump
000-121	Tank 37 - OPWL - Steel-Lined Concrete Sump
700-139 2	Caustic/Acid Spills Hydrofluoric Tank
700-146 1	Concrete Process 7,500-Gallon Waste Tank (31)
700-146 2	Concrete Process 7,500-Gallon Waste Tank (32)
700-146 3	Concrete Process 7,500-Gallon Waste Tank (34W)
700-146 4	Concrete Process 7,500-Gallon Waste Tank (34E)
700-146 5	Concrete Process 7,500-Gallon Waste Tank (30)
700-146 6	Concrete Process 7,500-Gallon Waste Tank (33)
700-150 1	Radioactive Site North of Building 771
700-150 3	Radioactive Site Between Buildings 771 and 774

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
UBC 771 Plutonium and Americium Recovery Operations (All depths start below building slab)	CE47 000	2083724 010	750861 638	2083724 010	750861 638	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CE47-001	2083652 650	750871 216	2083652 650	750868 318	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated approximately 3 feet because of structural interference in the building floor Depth interval measured from beneath building
	CE47-002	2083696 625	750928 227	2083696 625	750928 227	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CE48-000	2083669 240	750994 815	2083669 240	751008 889	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated because of column footing Depth interval measured from beneath building
	CE48-001	2083597 880	751004 394	2083593 326	751017 226	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated north west approximately 10 feet because of structural interference in the building floor Depth interval measured from beneath building
	CE48-002	2083713 215	751051 826	2083713 215	751051 826	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CE48 003	2083641 855	751061 404	2083651 790	751061 817	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated out of men's restroom to Room 123 Depth interval measured from beneath building
	CF47-000	2083795 370	750852 059	2083783 752	750852 612	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated west approximately 12 feet because of structural interference in the building floor Depth interval measured from beneath building
	CF47-001	2083910 705	750899 491	2083915 130	750875 703	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated out of Corridor G Building management did not allow drilling in corridors Depth interval measured from beneath building

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CF47 002	2083839 345	750909 070	2083839 345	750909 070	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CF47-003	2083767 985	750918 648	2083767 985	750918 648	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CF48-000	2083883 320	750966 080	2083885 803	750966 080	Subsurface Soil	0-0 5	Radionuclides Metals SVOCs VOCs	Relocated because of structural interference in the building floor
	CF48-001A	2083811 960	750975 659			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Location Code changed to CF48-021 because of depth change
	CF48 001B	2083811 960	750975 659			Subsurface Soil	0 5-2 5	Radionuclides	Location Code changed to CF48-021 because of depth change
	CF48-001C	2083811 960	750975 659			Subsurface Soil	2 5-4 5'	Radionuclides	Interval "C" of this sample location not sampled because of refusal
	CF48-002A	2083740 600	750985 237			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Location Code changed to CF48-022 because of depth change
	CF48-002B	2083740 600	750985 237			Subsurface Soil	0 5-2 5'	Radionuclides	Location Code changed to CF48-022 because of depth change
	CF48-002C	2083740 600	750985 237			Subsurface Soil	2 5-4 5'	Radionuclides	Location Code changed to CF48-022 Interval "C" of this sample location not sampled because of refusal
	CF48-003	2083855 935	751032 669	2083840 61832	751032 66900	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated approximately 15 feet west because of structural interference in the building floor Depth interval measured from beneath building
	CF48-004	2083784 575	751042 247	2083792 44032	751042 24700	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated to Room 114 Depth interval measured from beneath building
	CF48 005	2083899 910	751089 679	2083899 91000	751089 67900	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CF48-006	2083828 550	751099 258	2083828 55000	751099 25800	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CF48-007	2083757 190	751108 836	2083762 57154	751118 35718	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated out of corridor C Building management did not allow drilling in corridors Depth interval measured from beneath building
	CF48-008	2083872 525	751156 268	2083872 52500	751156 26800		0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CF48-021			2083811 96	750975 70	Subsurface Soil	0-0 5	Radionuclides Metals SVOCs VOCs	Replaced CF48-001 because of depth change
	CF48-022			2083740 600	750985 237	Subsurface Soil	1-1 5'	Radionuclides Metals SVOCs VOCs	Replaced CF48-002 Depth interval measured from beneath building
	CF48-024			2083769 687	751003 428	Subsurface Soil	1-1 5'	Radionuclides Metals SVOCs VOCs	Replaced CF48-011 Depth interval measured from beneath building
	CG48-002	2083971 270	751080 101			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Location deleted because of close proximity to CG48-013
UBC 774 - Liquid Process Waste Treatment (All depths start below building slab)	CG48-000	2084113 990	751060 944	2084113 99000	751060 94400	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CG48-001	2084042 630	751070 523	2084043 90467	751074 34701	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Relocated approximately 3 feet because of structural interference in the building floor Depth interval measured from beneath building
	CH48-001	2084185 350	751051 366			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Location deleted because of close proximity to CG48-005

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CG48-020	2084068 182	751120 168	2084068 182	751120 168	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	No significant difference Depth interval measured from beneath building
	CG48-021	2084071 658	751050 640			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Location deleted because OPWL was overhead, not in subsurface
Building Sumps	CE47-003	2083722 762	750923 295	2083722 34804	750948 13287	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
(All depths start below building slab)	CE47-004	2083675 837	750918 963	2083702 74469	750913 99543	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CE47-005	2083640 462	750937 011			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Not collected because sump did not exist at this location
	CE47-006	2083669 339	750854 712			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Not collected because sump did not exist at this location
	CE47-007	2083638 297	750868 428			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Not collected because sump did not exist at this location
	CE47-008	2083677 281	750866 984			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Not collected because sump did not exist at this location
	CE47-009	2083639 019	750921 129	2083643 572	750918 645	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CE47-010	2083638 297	750947 840			Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Not collected because sump did not exist at this location
	CE48-006	2083658 511	750966 610	2083654 785	750961 642	Subsurface Soil	0-0 8'	Radionuclides Metals SVOCs s	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CE48-007	2083683 056	750986 102	2083695 474	750988 585	Subsurface Soil	0–0 5'	Radionuclides Metals SVOCs VOCs	Proposed building sump locations moved to actual sump locations Depth interval from beneath building/sump
	CF47 004	2083919 125	750890 086			Subsurface Soil	0–0 5'	Radionuclides Metals SVOCs VOCs	Not collected, active sump
	CF47-005	2083781 238	750890 086	2083793 656	750895 053	Subsurface Soil	0-0 8'	Radionuclides Metals SVOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CF48-009	2083764 633	751092 947	2083899 630	751022 091	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs VOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CF48-010	2083755 248	751037 359			Subsurface Soil	0–0 5	Radionuclides Metals SVOCs VOCs	Not collected, active sump
	CF48-011A	2083769 687	751003 428	2083763 47753	751009 22350	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Location Code changed to CF48-024
	CF48-011B	2083769 687	751003 428			Subsurface Soil	0 5-2 5'	Radionuclides	Location Code changed to CF48-024 because of depth "B" interval not sampled because of refusal
	CF48-011C	2083769 687	751003 428			Subsurface Soil	2 5-4 5'	Radionuclides	Location Code changed to CF48-024 because of depth "C" interval not sampled because of refusal
	CF48-012A	2083754 526	750974 551	2083746 24671	750974 55100	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CF48-012B	2083754 526	750974 551	2083746 24671	750974 55100	Subsurface Soil	05-2 5'	Radionuclides	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CF48-012C	2083754 526	750974 551	2083746 24671	750974 55100	Subsurface Soil	2 5-4 5'	Radionuclides VOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CF48-013	2083748 751	750966 610	2083776 486	750968 679	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs	Proposed building sump locations moved to actual sump locations Depth interval measured from beneath building/sump
	CF48-023	2083906 620	751003 466			Subsurface Soil	2 5-4 5'	Radionuclides Metals SVOCs VOCs	Not collected because sump does not exist at this location
	CE48-026			2083724 006	751010 236	Subsurface Soil	0-0 5'	Radionuclides Metals VOCs	Additional Sump Location Depth interval measured from beneath building/sump
	CE48-025			2083684 818	750993 441	Subsurface Soil	0-0 5'	Radionuclides Metals VOCs	Additional Sump Location Depth interval measured from beneath building/sump
Tank 8 - OPWL East and West Process Tanks	CE49-008	2083704 813	751196 300	20833695 02	751217 86	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs Nitrate PCBs	Relocated north approximately 15 feet because of power line Depth interval measured from beneath building
	CE49-008	2083704 813	751196 300	20833695 02	751217 86	Subsurface Soil	0 5-2 5'	Radionuclides Metals SVOCs Nitrate PCBs VOCs	No significant difference
	CE49-008G	2083704 813	751196 300	20833695 02	751217 86	Subsurface Soil	10 5-12 5'	Radionuclides Metals SVOCs Nitrate PCBs VOCs	No significant difference
	CE49-009A	2083727 530	751192 893	2083708 276	751217 858	Subsurface Soil	0-0 5'	Radionuclides Metals SVOCs Nitrate PCBs	Moved north approximately 15 feet because of power line

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CE49-009B	2083727 530	751192 893	2083708 276	751217 858	Subsurface Soil	0 5-2 5'	Radionuclides Metals SVOCs Nitrate PCBs VOCs	Moved north approximately 15 feet because of power line
	CE49-009G	2083727 530	751192 893	2083708 276	751217 858	Subsurface Soil	10 5-12 5'	Radionuclides Metals SVOCs Nitrate PCBs VOCs	Moved north approximately 15 feet because of power line
	CG48-022			2084098 600	750984 589	Subsurface Soil	0-0 5	Radionuclides Metals SVOCs VOCs	Originally to target OPWL, however no OPWL observed Used for additional coverage of Room 241
Miscellaneous Tanks	CG48-011C	2084113 720	751032 738	2084113 720	751032 738	Surface Soil	0-0 5	Radionuclides Metals	Tanks are ASTs soil sampled 0-0 5
	CG48-012C	2084114 856	751013 428	2084114 856	751013 428	Surface Soil	0-0 5	Radionuclides Metals	Tanks are ASTs, soil sampled 0-0 5
	CG48-013C	2083979 689	751086 123	2083979 689	751086 123	Surface Soil	0-0 5	Radionuclides Metals	Tanks are ASTs soil sampled 0-0 5
Tanks 14 and 16	CH48-017F	2084148 576	751041 784	2084157 498	751042 102	Subsurface Soil	8 5-10 5'	Radionuclides Metals Nitrate	Moved to adjacent to Tank
	CH48-018F	2084142 382	751018 202	2084142 063	751011 828	Subsurface Soil	8 5-10 5'	Radionuclides Metals Nitrate	No significant difference
	CH48-019F	2084155 960	751017 487	2084162 970	751023 541	Subsurface Soil	8 5-10 5'	Radionuclides Metals Nitrate	Moved to adjacent to Tank
IHSS 700-215 – Abandoned Sump Near Building 774 Unit 55 13 T-40	CG48 006	2084095 604	751097 309	2084095 604	751097 309	Subsurface Soil	0-0 5'	Radionuclides Metals Nitrate SVOC	No significant difference Depth interval measured from beneath building
	CG48-007	2084126 123	751097 231	2084126 123	751097 231	Subsurface Soil	0-0 5'	Radionuclides Metals Nitrate SVOC	No significant difference Depth interval measured from beneath building

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CG48-008	2084126 045	751068 741	2084126 045	751068 741	Subsurface Soil	2 0-2 5'	Radionuclides Metals Nitrate SVOC	Collected beneath groundwater sump in Room 103 Depth interval measured from beneath building
	CG48-009	2084095 838	751069 053	2084095 838	751069 053	Subsurface Soil	0-0 5'	Radionuclides Metals Nitrate SVOC	No significant difference Depth interval measured from beneath building
	CG48-010	2084110 200	751082 557	2084110 200	751082 557	Subsurface Soil	0-0 5'	Radionuclides Metals Nitrate SVOC	No significant difference Depth interval measured from beneath building
	CG48-023			2084095 604	751097 309	Subsurface Soil	0-0 5'	Radionuclides Metals Nitrate SVOC	Resample of CG48-006
Potential OPWL Leaks	CE49-000D	2083705 409	751183 646	2083697 46	751185 70	Subsurface Soil	4 5-6 5	Radionuclides Metals Nitrate	Relocated adjacent to OPWL
	CH48-003D	2084147 496	751023 055	2084180 956	751051 416	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	Relocated 30 feet northwest Close to P-26
	CH48-004D	2084184 413	750994 444	2084184 407	750994 441	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	No significant difference Moved several feet north along OPWL
	CG48-004C	2084014 593	751119 964	2084011 53	751137 63	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	Moved approximately five feet north along P-26
	CG48-005C	2084095 811	751012 903	2084095 811	751012 90	Subsurface Soil	2 5-4 5'	Radionuclides Metals Nitrate	No significant difference in location Original collection interval specified as 4 5 – 6 5'
	CE48-022D	2083554 235	751130 839			Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	Not Sampled Transferred to IHSS Group 000-2
	CE47-021D	2083556 465	750949 102			Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	Not Sampled Transferred to IHSS Group 000-2
	CG47-002D	2084093 873	750890 009	2084093 865	750889 9820	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	No significant difference

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CG47-003D	2084102 793	750900 044	2084102 832	750900 030	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	No significant difference
	CE49-012D	2083609 849	751178 113	2083598 84	751172 24	Subsurface Soil	4 5-6 5'	Radionuclides	Relocated approximately 10 feet west because of power line
	CE48-023D	2083571 940	750964 042	2083496 01	751033 59	Subsurface Soil	0-0 5'	Radionuclides	Original location inaccessible because of hillslope Sampled at outfall of pipe to the north
	CE48-024D	2083606 504	751119 021	2083613 42	751136 35	Subsurface Soil	4 5-6 5'	Radionuclides	Moved north 15 feet because of utility/power line
	CG49-006D	2084024 612	751207 102	2084026 45	751216 17	Subsurface Soil	0-0 5'	Radionuclides	Original location inaccessible because of powerline Sampled at outfall of pipe to the north
	CF48-018D	2083930 956	751112 331	2083922 24	751112 331	Subsurface Soil	4 5-6 5'	Radionuclides	Relocated to clear communication line
	CF49-017D	2083781 552	751200 413	2083781 676	751190 43	Subsurface Soil	4 5-6 5'	Radionuclides	Relocated 10 feet south and 15 feet west because of utility lines
	CG49-007D	2084092 625	751168 079	2084098 14	751197 33	Subsurface Soil	0-0 5'	Radionuclides	Sampled at outfall north of original location
	CG48-019D	2084129 418	751121 251	2084126 519	751119 415	Subsurface Soil	4 5-6 5'	Radionuclides	Offset 2 feet to southwest
Buildings 771 and 776 Tunnel (All depths start below building slab)	CE47-022	2083735 310	750843 609	2083735 310	750843 609	Subsurface Soil	0-0 5'	Radionuclides Metals SVOC VOC	No significant difference
	CE47-023	2083725 533	750766 477	2083725 533	750766 477	Subsurface Soil	0-0 5'	Radionuclides Metals SVOC VOC	No significant difference
	CE46-001	2083707 065	750662 186	2083707 065	750662 186	Subsurface Soil	0-0 5'	Radionuclides Metals SVOC VOC	No significant difference
700 150 2(N) Radioactive Site West of Buildings 771/776	CE48-008	2083694 258	751140 525	2083690 363	751144 198	Surface Soil	0-0 5'	Radionuclides Metals SVOC	Moved out from wall 5 feet to the northwest
	CE48-009	2083632 898	751129 436	2083641 8	751129 707	Surface Soil	0-0 5'	Radionuclides Metals SVOC	Moved 10 feet east because of utilities On boundary of IHSS 150 2(N) and IHSS 150 1

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CE48-010	2083599 017	751141 604	2083609	751140 562	Surface Soil	0-0 5'	Radionuclides Metals SVOC	Relocated 10 feet west because of proximity to underground utilities
	CE48-011	2083605 419	751106 178	2083505 4	751106 199	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-012	2083631 029	750964 474	2083630 96	750964 572	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-011	2083637 431	750929 048	2083637 74	750929 184	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-013	2083571 538	751118 347	2083586 48	751118 234	Surface Soil	0-0 5'	Radionuclides Metals SVOC	Moved east because original location was under a building
	CE48-014	2083577 941	751082 921	2083577 94	751082 916	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-015	2083597 148	750976 642	2083597 19	750976 547	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-012	2083603 550	750941 216	2083603 58	750941 287	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-013	2083609 952	750905 790	2083609 82	750905 49	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-014	2083616 355	750870 364	2083616 36	750870 394	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-016	2083537 657	751130 515	2083537 71	751130 541	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-017	2083544 060	751095 089	2083544 06	751095 089	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-018	2083550 462	751059 663	2083550 49	751059 651	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE48-019	2083556 864	751024 237	2083556 71	751024 376	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CE47-015	2083569 669	750953 385	2083569 49	750948 167	Surface Soil	0-0 5'	Radionuclides Metals SVOC	Moved five feet south for accessibility
	CE47-016	2083576 071	750917 958	2083576 04	750917 939	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-017	2083582 474	750882 532	2083582 47	750882 553	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CD48-000	2083529 385	751000 979	2083529 39	751000 938	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference Moved to avoid fence
	CD48-001	2083535 788	750965 553	2083535 82	750965 504	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference Moved to avoid fence
	CE47-018	2083542 190	750930 127	2083542 17	750930 086	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference Moved to avoid fence
	CE47-019	2083548 593	750894 701	2083548 62	750894 757	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
	CE47-020	2083554 995	750859 275	208348 62	750859 097	Surface Soil	0-0 5'	Radionuclides Metals SVOC	No significant difference
700-163 1 - Radioactive Site 700 North of Building 774 (Area 3) Wash Area	CH48-005	2084304 082	751091 925	2084304 12	751091 815	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-006	2084268 301	751087 955	2084268 29	751088 041	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-007	2084232 521	751083 986	2084232 38	751083 745	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-008	2084282 754	751120 927	2084282 64	751120 857	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CH48 009	2084246 973	751116 957	2084246 91	751117 138	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-010	2084211 193	751112 988	2084212 01	751112 81	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-011	2084297 207	751153 898	2084297 27	751154 026	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-012	2084261 426	751149 929	2084261 43	751149 902	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-013	2084225 646	751145 960	2084225 81	751146 003	Surface Soil	0-0 5	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-014	2084189 865	751141 990	2084190 14	751141 918	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH48-015	2084154 085	751138 021	2084154 33	751137 92	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH49 000	2084311 659	751186 870	2084311 76	751186 774	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH49 001	2084275 879	751182 900	2084275 82	751182 874	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	No significant difference
	CH49-002	2084240 098	751178 931	2084255 123	751190 066	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	Relocated approximately 15 feet to the east, original location under trailer

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CH49-003	2084204 318	751174 962	2084206 55	751164 908	Surface Soil	0-0 5'	Radionuclides Metals SVOCs PCBs	Relocated approximately 10 feet south because of proximity to utilities
	CH49-004	2084218 771	751207 933	2084218 87	751207 841	Surface Soil	0-0 5	Radionuclides Metals SVOCs PCBs	No significant difference
700 150 1 Radioactive Site North of Building 771	CE48-020	2083638 997	751148 995	2083638 88	751148 925	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE49-001	2083624 756	751182 058	2083624 42	751181 97	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE48-021	2083674 751	751144 796	2083674 709	751144 933	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE49-002	2083660 510	751177 859	2083650 888	751168 089	Surface Soil	0-0 5'	Radionuclides Metals	Relocated because original location under conex
	CE49-003	2083646 270	751210 923	2083646 3	751210 967	Surface Soil	0-0 5	Radionuclides Metals	No significant difference
	CE49-004	2083696 265	751173 660	2083696 24	751173 715	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE49-005	2083682 024	751206 724	2083682 02	751206 724	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE49-006	2083732 019	751169 461	2083732 18	751169 396	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CE49-007	2083717 778	751202 525	2083720 658	751210 142	Surface Soil	0-0 5'	Radionuclides Metals	Relocated approximately ten feet to the northeast, original location under connex
	CF49-000	2083767 773	751165 262	2083767 89	751164 972	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-001	2083753 533	751198 326	2083753 47	751198 358	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF48-014	2083803 528	751161 063	2083803 55	751161 121	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-002	2083789 287	751194 127	2083789 14	751194 007	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF48-015	2083839 282	751156 864	2083840 368	751160 778	Surface Soil	0-0 5'	Radionuclides Metals	Relocated approximately 4 feet to the northeast because of underground utilities
	CF49-003	2083825 041	751189 928	2083825 105	751189 756	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-004	2083860 795	751185 729	2083860 692	751185 588	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CF49 005	2083896 550	751181 530	2083896 613	751181 495	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-006	2083882 309	751214 593	2083875 213	751218 148	Surface Soil	0-0 5'	Radionuclides Metals	Relocated approximately 7 feet to the west, original location under building
	CF49-007	2083932 304	751177 331	2083932 293	751177 223	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-008	2083918 063	751210 394	2083918 682	751210 291	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49 009	2083903 823	751243 458	2083903 515	751243 42	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CF49-018			2083812 46	751225 89	Surface and Subsurface Soil	0-10 5'	Radionuclides	New location between T771A and T771N
	CF49-019			2083817 07	751215 32	Surface and Subsurface Soil	0-10 5'	Radionuclides	New location between T771A and T771N
	CF49-020			2083819 07	751266 52	Surface and Subsurface Soil	0-10 5'	Radionuclides	New location between T771A and T771N
	CG49-000	2083968 058	751173 132	2083967 92	751173 028	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
	CG49-001	2083953 818	751206 195	2083953 892	751206 161	Surface Soil	0-0 5'	Radionuclides Metals	No significant difference
700-163 2 - Radioactive Site 700 Area 3 Americium (Am) Slab	CF49-012	2083812 847	751253 869	2083831 387	751305 176	Surface Soil	0-0 5'	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-012	2083812 847	751253 869	2083831 387	751305 176	Subsurface Soil	0 5-2 5'	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-013	2083851 879	751255 171	2083853 434	751304 939	Surface Soil	0-0 5'	Radionuclides	Relocated approximately 50 feet north original location under CCA trailer IHSS moved
	CF49-013	2083851 879	751255 171	2083853 434	751304 939	Subsurface Soil	0 5-10 5'	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-014	2083853 181	751233 052	2083853 422	751286 076	Surface Soil	0-0 5'	Radionuclides	Relocated approximately 50 feet north original location under CCA trailer IHSS moved

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CF49-014	2083853 181	751233 052	2083853 422	751286 076	Subsurface Soil	0 5-10 5'	Radionuclides	Relocated approximately 50 feet north original location under CCA trailer IHSS moved
	CF49-015	2083812 847	751233 052	2083831 756	751285 175	Surface Soil	0-0 5'	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-015	2083812 847	751233 052	2083831 756	751285 175	Subsurface Soil	0 5-10 5	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-016	2083833 664	751240 858	2083842 564	751295 677	Surface Soil	0-0 5'	Radionuclides	Relocated approximately 50 feet north , original location under CCA trailer IHSS moved
	CF49-016	2083833 664	751240 858	2083842 564	751295 677	Subsurface Soil	0 5-10 5'	Radionuclides	Relocated approximately 50 feet north original location under CCA trailer IHSS moved
700-139 1(N)(b) - Hydroxide Tank KOH, NaOH Condensate	CG48-015	2084126 411	751119 857	2084126 519	751119 415	Surface Soil	0-0 5'	Radionuclides Metals Nitrate	No significant difference
	CG48-015	2084126 411	751119 857	2084126 519	751119 415	Subsurface Soil	0 5-2 5'	Radionuclides Metals Nitrate	No significant difference
IHSS 139 2 – Caustic/Acid Spills Hydrofluoric Tank	CF47-006	2083896 117	750802 389	2083896 08	750802 462	Surface Soil	0-0 5'	Radionuclides Metals SVOCs	Relocated because of proximity to underground utilities
	CF47-007	2083914 332	750788 077	2083914 33	750788 07	Surface Soil	0-0 5'	Radionuclides Metals SVOCs	No significant difference
700-150 3 – Radioactive Site Between Buildings 771 and 774	CF48-017	2083924 220	751018 267	2083924 677	751018 377	Subsurface Soil	0 5-2 5'	Radionuclides Metals VOCs	No significant difference
	CG48-016	2083956 696	751017 434	2083956 548	751017 273	Subsurface Soil	0 5-2 5'	Radionuclides Metals VOCs	No significant difference
	CG48-017	2084026 643	751016 602	2084026 765	751016 607	Subsurface Soil	0 5-2 5'	Radionuclides Metals VOCs	No significant difference

Table 2
IHSS Group 700-4 Characterization Sampling Specifications and Deviations

IHSS/PAC/UBC Site	Location Code	Proposed Easting	Proposed Northing	Actual Easting	Actual Northing	Media	Depth Interval	Analyte	Comment
	CG48 018	2084064 947	751049 910	2084064 95	751049 91	Subsurface Soil	0 5-2 5'	Radionuclides Metals VOCs	No significant difference
IHSS 149 1 (Solar Evaporation Ponds)	CH48-020D	2084187 354	751051 575	2084187 54	751051 722	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	No significant difference
	CH48-021D	2084253 970	751015 769	2084253 99	751015 76	Subsurface Soil	4 5-6 5'	Radionuclides Metals Nitrate	No significant difference
Pipe at Maintenance Shop	CE48-027			2083566 34	751065 23	Subsurface Soil	0- 0 5'	Radionuclides Metals VOCs	Sample location added because building personnel identified issue Location determined by building personnel Depth interval measured from beneath building
	CE48 028			2083538 06	751064 32	Surface Soil	0-0 5	Radionuclides Metals VOCs	Sample location added because building personnel identified issue Location determined by building personnel

Am - Americium
AST – above ground storage tank
CCA – Configuration
PCB- polychlorinated biphenyl
OPWL – Original Process Waste Line
SVOC- semivolatile organic compound
VOC – volatile organic compound

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
UBC 771 – Plutonium and Americium Recovery Operation (All depths start below building slab)	CE47-000	2083724 010	750861 638	Barium	643 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-000	2083724 010	750861 638	Copper	85 500	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-000	*2083724 010*	*750861 638*	*Uranium-234*	*2 300*	*1 470*	*2 000*	*0 0*	*0 5*	*300*	*1800*	pCi/g
	CE47-000	2083724 010	750861 638	Uranium-238	2 300	1 470	2 000	0 0	0 5	351	1600	pCi/g
	CE47-000	2083724 010	750861 638	Vanadium	138	31 00	45 59			7150	433	mg/kg
	CF48-008	2083872 525	751156 268	Anthracene	190	66	-	0 0	0 5	204000000	-	ug/kg
	CF48-008	2083872 525	751156 268	Antimony	10	7	0 47	0 0	0 5	409	-	mg/kg
	CF48-008	2083872 525	751156 268	Arsenic	17 8	5	10 09	0 0	0 5	22 2	21 6	mg/kg
	CF48-008	2083872 525	751156 268	Barium	1030	98	141 26	0 0	0 5	26400	-	mg/kg
	CF48-008	2083872 525	751156 268	bis(2-Ethylhexyl)phthalate	75	71	-	0 0	0 5	1970000	-	ug/kg
	CF48-008	2083872 525	751156 268	Chromium	29 7	20	16 99	0 0	0 5	268	-	mg/kg
	CF48-008	2083872 525	751156 268	Copper	133	4	18 06	0 0	0 5	40900	-	mg/kg
	CF48-008	2083872 525	751156 268	Fluoranthene	180	39	-	0 0	0 5	27200000	-	ug/kg
	CF48-008	2083872 525	751156 268	Iron	48600	2190	18037	0 0	0 5	307000	-	mg/kg
	CF48-008	**2083872 525**	**751156.268**	**Lead**	**47.7**	**7**	**54.62**	**0 0**	**0 5**	**1000**	**25 6**	**mg/kg**
	CF48-008	2083872 525	751156 268	Manganese	707	158	365 08	0 0	0 5	3480	-	mg/kg
	CF48-008	2083872 525	751156 268	Nickel	43 2	12	14 91	0 0	0 5	20400	-	mg/kg
	CF48-008	2083872 525	751156 268	Pyrene	250	56	-	0 0	0 5	22100000	-	ug/kg
	CF48-008	2083872 525	751156 268	Strontium	297	20	48 94	0 0	0 5	613000	-	mg/kg
	CF48-008	2083872 525	751156 268	Tin	6 96	4	2 9	0 0	0 5	613000	-	mg/kg
	CF48-008	*2083872 525*	*751156 268*	*Uranium, Total*	*12 474*	*5 33*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-008	*2083872 525*	*751156 268*	*Uranium, Total*	*12 474*	*5 2866*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CF48-008	*2083872 525*	*751156 268*	*Uranium-234*	*4 2*	*1 796528*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-008	2083872 525	751156 268	Uranium-238	4 2	1 796528	2	0 0	0 5	351	1600	pCi/g
	CF48-008	2083872 525	751156 268	Zinc	262	9	-	0 0	0 5	307000	-	mg/kg
	CE47-001	2083652 650	750871 216	Arsenic	12 50	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-001	2083652 650	750871 216	Barium	689 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-001	2083652 650	750871 216	Chromium	28 90	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CE47-001	2083652 650	750871 216	Copper	57 50	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-001	2083652 650	750871 216	Iron	25200 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-001	2083652 650	750871 216	Nickel	34 40	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-001	2083652 650	750871 216	Strontium	112 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-001	*2083652 650*	*750871 216*	*Uranium-234*	*6 20*	*1 31*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-001	2083652 650	750871 216	Uranium-235	0 44	0 20	0 094	0 0	0 5	8	1900	pCi/g
	CE47-001	2083652 650	750871 216	Uranium-238	6 20	1 31	2 000	0 0	0 5	351	1600	pCi/g
	CE47-001	2083652 650	750871 216	Vanadium	129 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE47-001	2083652 650	750871 216	Zinc	96 20	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-002	2083696 625	750928 227	Arsenic	11 60	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-002	2083696 625	750928 227	Barium	680 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-002	2083696 625	750928 227	Chromium	28 80	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CE47-002	2083696 625	750928 227	Copper	102 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-002	2083696 625	750928 227	Iron	39100 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-002	2083696 625	750928 227	Manganese	579 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-002	2083696 625	750928 227	Nickel	52 70	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-002	2083696 625	750928 227	Strontium	203 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-002	*2083696 625*	*750928 227*	*Uranium-234*	*2 90*	*1 63*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-002	2083696 625	750928 227	Uranium-235	0 30	0 11	0 094	0 0	0 5	8	1900	pCi/g
	CE47-002	2083696 625	750928 227	Uranium-238	2 90	1 63	2 000	0 0	0 5	351	1600	pCi/g
	CE47-002	2083696 625	750928 227	Vanadium	164 00	31 00	45 590	0 0	0 5	7150	433	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-002	2083696 625	750928 227	Zinc	108 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-000	2083669 240	750994 815	Barium	748 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-000	2083669 240	750994 815	Copper	60 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-000	*2083669 240*	*750994 815*	*Uranium-234*	*3 30*	*1 37*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-000	2083669 240	750994 815	Uranium-235	0 19	0 15	0 094	0 0	0 5	8	1900	pCi/g
	CE48-000	2083669 240	750994 815	Uranium-238	3 30	1 37	2 000	0 0	0 5	351	1600	pCi/g
	CE48-000	2083669 240	750994 815	Vanadium	125 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE48-002	2083713 215	751051 826	Arsenic	13 80	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-002	2083713 215	751051 826	Barium	668 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-002	2083713 215	751051 826	Copper	105 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-002	2083713 215	751051 826	Vanadium	129 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE48-003	2083641 855	751061 404	4-Methyl-2-pentanone	77 00	49 00	NA	0 0	0 5	16400000	NA	ug/kg
	CE48-003	2083641 855	751061 404	Barium	691 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-003	2083641 855	751061 404	Copper	61 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-003	*2083641 855*	*751061 404*	*Uranium-234*	*2 30*	*0 97*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-003	2083641 855	751061 404	Uranium-238	2 30	0 97	2 000	0 0	0 5	351	1600	pCi/g
	CE48-003	2083641 855	751061 404	Vanadium	133 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF47-000	2083795 370	750852 059	Arsenic	17 00	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-000	2083795 370	750852 059	Barium	666 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-000	2083795 370	750852 059	Benzyl Alcohol	260 00	94 00	NA	0 0	0 5	307000000	NA	ug/kg
	CF47-000	2083795 370	750852 059	Copper	86 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-000	2083795 370	750852 059	Uranium-235	0 26	0 10	0 094	0 0	0 5	8	1900	pCi/g
	CF47-000	2083795 370	750852 059	Vanadium	152 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF47-001	2083910 705	750899 491	Arsenic	17 90	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-001	2083910 705	750899 491	Barium	680 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-001	2083910 705	750899 491	Copper	181 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-001	*2083910 705*	*750899 491*	*Uranium-234*	*4 60*	*1 02*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF47-001	2083910 705	750899 491	Uranium-238	4 60	1 02	2 000	0 0	0 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF47-001	2083910 705	750899 491	Vanadium	162 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF47-002	2083839 345	750909 070	Barium	586 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-002	2083839 345	750909 070	Copper	78 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-002	*2083839 345*	*750909 070*	*Uranium-234*	*3 20*	*1 23*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF47-002	2083839 345	750909 070	Uranium-238	3 20	1 23	2 000	0 0	0 5	351	1600	pCi/g
	CF47-002	2083839 345	750909 070	Vanadium	111 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF47-003	2083767 985	750918 648	Arsenic	15 30	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-003	2083767 985	750918 648	Barium	660 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-003	2083767 985	750918 648	Benzyl Alcohol	520 00	89 00	NA	0 0	0 5	307000000	NA	ug/kg
	CF47-003	2083767 985	750918 648	Butylbenzylphthalate	120 00	69 00	NA	0 0	0 5	147000000	NA	ug/kg
	CF47-003	2083767 985	750918 648	Chromium	38 20	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF47-003	2083767 985	750918 648	Copper	107 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-003	2083767 985	750918 648	Iron	39900 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF47-003	2083767 985	750918 648	Manganese	618 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF47-003	2083767 985	750918 648	Nickel	51 30	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF47-003	2083767 985	750918 648	Strontium	199 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF47-003	2083767 985	750918 648	Uranium-235	0 19	0 16	0 094	0 0	0 5	8	1900	pCi/g
	CF47-003	2083767 985	750918 648	Vanadium	123 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF47-003	2083767 985	750918 648	Zinc	117 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-000	2083883 320	750966 080	Arsenic	11 700	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-000	2083883 320	750966 080	Barium	660 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-000	2083883 320	750966 080	Chromium	24 70	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-000	2083883 320	750966 080	Copper	71 50	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-000	2083883 320	750966 080	Iron	31500 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-000	2083883 320	750966 080	Manganese	409 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-000	2083883 320	750966 080	Nickel	43 30	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-000	2083883 320	750966 080	Strontium	187 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-000	*2083883 320*	*750966 080*	*Uranium-234*	*5 10*	*1 96*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-000	2083883 320	750966 080	Uranium-238	5 10	1 96	2 000	0 0	0 5	351	1600	pCi/g
	CF48-000	2083883 320	750966 080	Vanadium	136 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-000	2083883 320	750966 080	Zinc	172 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-003	2083855 935	751032 669	Arsenic	17 40	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-003	2083855 935	751032 669	Barium	718 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-003	2083855 935	751032 669	Benzo(a)anthracene	100 00	42 00	NA	0 0	0 5	34900	800000	ug/kg
	CF48-003	2083855 935	751032 669	Benzo(a)pyrene	100 00	55 00	NA	0 0	0 5	3490	25700	ug/kg
	CF48-003	2083855 935	751032 669	Benzo(b)fluoranthene	98 00	68 00	NA	0 0	0 5	34900	1010000	ug/kg
	CF48-003	2083855 935	751032 669	Benzo(k)fluoranthene	90 00	73 00	NA	0 0	0 5	349000	1010000	ug/kg
	CF48-003	2083855 935	751032 669	Benzyl Alcohol	140 00	88 00	NA	0 0	0 5	307000000	NA	ug/kg
	CF48-003	2083855 935	751032 669	Chromium	35 40	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-003	2083855 935	751032 669	Chrysene	130 00	36 00	NA	0 0	0 5	3490000	NA	ug/kg
	CF48-003	2083855 935	751032 669	Copper	112 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-003	2083855 935	751032 669	Fluoranthene	250 00	42 00	NA	0 0	0 5	27200000	NA	ug/kg
	CF48-003	2083855 935	751032 669	Indeno(1,2,3-cd)pyrene	54 00	47 00	NA	0 0	0 5	34900	NA	ug/kg
	CF48-003	2083855 935	751032 669	Iron	32200 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-003	2083855 935	751032 669	Manganese	506 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-003	2083855 935	751032 669	Nickel	44 10	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-003	2083855 935	751032 669	Pyrene	220 00	60 00	NA	0 0	0 5	22100000	NA	ug/kg
	CF48-003	2083855 935	751032 669	Strontium	187 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-003	*2083855 935*	*751032 669*	*Uranium-234*	*3 20*	*1 88*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-003	2083855 935	751032 669	Uranium-238	3 20	1 88	2 000	0 0	0 5	351	1600	pCi/g
	CF48-003	2083855 935	751032 669	Vanadium	135 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-003	2083855 935	751032 669	Zinc	109 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-004	2083784 575	751042 247	Arsenic	18 00	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-004	2083784 575	751042 247	Barium	621 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-004	2083784 575	751042 247	Chromium	37 70	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-004	2083784 575	751042 247	Copper	83 70	4 00	18 060	0 0	0 5	40900	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-004	2083784 575	751042 247	Iron	33100 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-004	2083784 575	751042 247	Manganese	455 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-004	2083784 575	751042 247	Nickel	47 80	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-004	2083784 575	751042 247	Strontium	181 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-004	2083784 575	751042 247	Vanadium	99 60	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-004	2083784 575	751042 247	Zinc	89 20	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-005	2083899 910	751089 679	Americium-241	1 00	0 57	0 023	0 0	0 5	76	1900	pCi/g
	CF48-005	2083899 910	751089 679	Arsenic	11 60	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-005	2083899 910	751089 679	Barium	612 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-005	2083899 910	751089 679	Chromium	38 70	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-005	2083899 910	751089 679	Copper	291 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-005	2083899 910	751089 679	Iron	31900 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-005	2083899 910	751089 679	Manganese	412 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-005	2083899 910	751089 679	Nickel	42 30	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-005	*2083899 910*	*751089 679*	*Plutonium-239/240*	*11 32*	*0 57*	*0 066*	*0 0*	*0 5*	*50*	*3800*	*pCi/g*
	CF48-005	2083899 910	751089 679	Strontium	338 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-005	2083899 910	751089 679	Vanadium	127 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-005	2083899 910	751089 679	Zinc	353 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-006	2083828 550	751099 258	Americium-241	0 77	0 51	0 023	0 0	0 5	76	1900	pCi/g
	CF48-006	2083828 550	751099 258	Arsenic	13 40	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-006	2083828 550	751099 258	Barium	762 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-006	2083828 550	751099 258	Benzyl Alcohol	160 00	89 00	NA	0 0	0 5	307000000	NA	ug/kg
	CF48-006	2083828 550	751099 258	Chromium	24 90	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-006	2083828 550	751099 258	Copper	93 70	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-006	2083828 550	751099 258	Iron	33100 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-006	2083828 550	751099 258	Manganese	568 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-006	2083828 550	751099 258	Nickel	46 40	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-006	*2083828 550*	*751099 258*	*Plutonium-239/240*	*9 46*	*0 51*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
UBC 774 – Liquid Process Waste Treatment (All depths start below building slab)	CF48-006	2083828 550	751099 258	Strontium	216 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-006	*2083828 550*	*751099 258*	*Uranium-234*	*3 80*	*1 66*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-006	*2083828 550*	*751099 258*	*Uranium-238*	*3 80*	*1 66*	*2 000*	*0 0*	*0 5*	*351*	*1600*	*pCi/g*
	CF48-006	2083828 550	751099 258	Vanadium	119 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-006	2083828 550	751099 258	Zinc	96 30	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-007	2083757 190	751108 836	Anthracene	220 00	72 00	NA	0 0	0 5	204000000	NA	ug/kg
	CF48-007	2083757 190	751108 836	Fluoranthene	220 00	43 00	NA	0 0	0 5	27200000	NA	ug/kg
	CF48-007	2083757 190	751108 836	Pyrene	290 00	62 00	NA	0 0	0 5	22100000	NA	ug/kg
	CF48-007	*2083757 190*	*751108 836*	*Uranium-234*	*4 80*	*1 40*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-007	2083757 190	751108 836	Uranium-235	0 18	0 14	0 094	0 0	0 5	8	1900	pCi/g
	CF48-007	2083757 190	751108 836	Uranium-238	4 80	1 40	2 000	0 0	0 5	351	1600	pCi/g
	CG48-000	2084113 990	751060 944	Barium	785 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-000	2084113 990	751060 944	Benzo(a)anthracene	120 00	41 00	NA	0 0	0 5	34900	800000	ug/kg
	CG48-000	2084113 990	751060 944	Benzo(a)pyrene	100 00	54 00	NA	0 0	0 5	3490	25700	ug/kg
	CG48-000	2084113 990	751060 944	Benzo(b)fluoranthene	87 00	66 00	NA	0 0	0 5	34900	1010000	ug/kg
	CG48-000	2084113 990	751060 944	Benzo(k)fluoranthene	87 00	72 00	NA	0 0	0 5	349000	1010000	ug/kg
	CG48-000	2084113 990	751060 944	Chrysene	140 00	36 00	NA	0 0	0 5	3490000	NA	ug/kg
	CG48-000	2084113 990	751060 944	Copper	139 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-000	2084113 990	751060 944	Fluoranthene	240 00	41 00	NA	0 0	0 5	27200000	NA	ug/kg
	CG48-000	2084113 990	751060 944	Pyrene	240 00	59 00	NA	0 0	0 5	22100000	NA	ug/kg
	CG48-000	2084113 990	751060 944	Strontium	216 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-000	*2084113 990*	*751060 944*	*Uranium-234*	*4 40*	*1 24*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-000	2084113 990	751060 944	Uranium-235	0 20	0 10	0 094	0 0	0 5	8	1900	pCi/g
	CG48-000	2084113 990	751060 944	Uranium-238	4 40	1 24	2 000	0 0	0 5	351	1600	pCi/g
	CG48-000	2084113 990	751060 944	Vanadium	90 50	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-001	2084042 630	751070 523	Antimony	12 7	7 00	0 47	0	0 5	409	-	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-001	2084042 630	751070 523	Arsenic	11 9	5 00	10 09	0	0 5	22 2	21 6	mg/kg
	CG48-001	2084042 630	751070 523	Barium	661	98 00	141 26	0	0 5	26400	-	mg/kg
	CG48-001	2084042 630	751070 523	Benzo(a)anthracene	69	42 00	-	0	0 5	34900	800000	ug/kg
	CG48-001	2084042 630	751070 523	Chromium	35 3	20 00	16 99	0	0 5	268	-	mg/kg
	CG48-001	2084042 630	751070 523	Chrysene	66	36 00	-	0	0 5	3490000	-	ug/kg
	CG48-001	2084042 630	751070 523	Copper	74 9	4 00	18 06	0	0 5	40900	-	mg/kg
	CG48-001	2084042 630	751070 523	Fluoranthene	140	42 00	-	0	0 5	27200000	-	ug/kg
	CG48-001	2084042 630	751070 523	Iron	31800	2190 00	18037	0	0 5	307000	-	mg/kg
	CG48-001	2084042 630	751070 523	Nickel	42 3	12 00	14 91	0	0 5	20400	-	mg/kg
	CG48-001	2084042 630	751070 523	Pyrene	140	60 00	-	0	0 5	22100000	-	ug/kg
	CG48-001	2084042 630	751070 523	Strontium	165	20 00	48 94	0	0 5	613000	-	mg/kg
	CG48-001	2084042 630	751070 523	Tin	5 03	4 00	2 9	0	0 5	613000	-	mg/kg
	CG48-001	2084042 630	751070 523	Uranium-235	0 23	0 12	0 0939	0	0 5	8	1900	pCi/g
	CG48-001	2084042 630	751070 523	Vanadium	102	31 00	45 59	0	0 5	7150	433	mg/kg
	CG48-001	2084042 630	751070 523	Zinc	104	9 00	73 76	0	0 5	307000	-	mg/kg
	CG48-020	2084068 182	751120 168	2-Methylnaphthalene	42 00	39 00	NA	0 0	0 5	20400000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Acenaphthene	210 00	50 00	NA	0 0	0 5	40800000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Anthracene	200 00	73 00	NA	0 0	0 5	204000000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Arsenic	14 60	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-020	2084068 182	751120 168	Barium	608 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-020	2084068 182	751120 168	Benzo(a)anthracene	460 00	44 00	NA	0 0	0 5	34900	800000	ug/kg
	CG48-020	2084068 182	751120 168	Benzo(a)pyrene	440 00	57 00	NA	0 0	0 5	3490	25700	ug/kg
	CG48-020	2084068 182	751120 168	Benzo(b)fluoranthene	360 00	70 00	NA	0 0	0 5	34900	1010000	ug/kg
	CG48-020	2084068 182	751120 168	Benzo(k)fluoranthene	430 00	76 00	NA	0 0	0 5	349000	1010000	ug/kg
	CG48-020	2084068 182	751120 168	Chrysene	580 00	38 00	NA	0 0	0 5	3490000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Copper	101 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-020	2084068 182	751120 168	Dibenz(a,h)anthracene	120 00	69 00	NA	0 0	0 5	3490	NA	ug/kg
	CG48-020	2084068 182	751120 168	Dibenzofuran	97 00	56 00	NA	0 0	0 5	2950000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
Building Sumps (All depths start below building slab)	CG48-020	2084068 182	751120 168	Fluoranthene	1400 00	44 00	NA	0 0	0 5	27200000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Fluorene	170 00	60 00	NA	0 0	0 5	40800000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Indeno(1,2,3-cd)pyrene	240 00	49 00	NA	0 0	0 5	34900	NA	ug/kg
	CG48-020	2084068 182	751120 168	Naphthalene	120 00	47 00	NA	0 0	0 5	3090000	NA	ug/kg
	CG48-020	2084068 182	751120 168	Pyrene	1300 00	63 00	NA	0 0	0 5	22100000	NA	ug/kg
	CG48-020	*2084068 182*	*751120 168*	*Uranium-234*	*2 90*	*1 51*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-020	2084068 182	751120 168	Uranium-235	0 24	0 13	0 094	0 0	0 5	8	1900	pCi/g
	CG48-020	2084068 182	751120 168	Uranium-238	2 90	1 51	2 000	0 0	0 5	351	1600	pCi/g
	CG48-020	2084068 182	751120 168	Vanadium	123 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE47-003	2083722 762	750923 295	Americium-241	6 60	0 77	0 023	0 0	0 5	76	1900	pCi/g
	CE47-003	2083722 762	750923 295	Arsenic	12 10	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-003	2083722 762	750923 295	Barium	616 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-003	2083722 762	750923 295	Chromium	40 50	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CE47-003	2083722 762	750923 295	Copper	53 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-003	2083722 762	750923 295	Iron	37300 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-003	2083722 762	750923 295	Manganese	605 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-003	2083722 762	750923 295	Nickel	42 80	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-003	***2083722 762***	***750923 295***	***Plutonium-239/240***	***56 57***	***0 77***	***0 066***	***0 0***	***0 5***	***50/116***	***3800***	***pCi/g***
	CE47-003	2083722 762	750923 295	Strontium	183 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-003	*2083722 762*	*750923 295*	*Uranium-234*	*2 40*	*1 59*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-003	2083722 762	750923 295	Uranium-238	2 40	1 59	2 000	0 0	0 5	351	1600	pCi/g
	CE47-003	2083722 762	750923 295	Vanadium	143 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE47-003	2083722 762	750923 295	Zinc	86 90	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-004	2083675 837	750918 963	Barium	489 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-004	2083675 837	750918 963	Chromium	51 40	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CE47-004	2083675 837	750918 963	Copper	72 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-004	2083675 837	750918 963	Iron	21300 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-004	2083675 837	750918 963	Nickel	26 30	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-004	2083675 837	750918 963	Strontium	126 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-004	*2083675 837*	*750918 963*	*Uranium-234*	*4 70*	*1 20*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-004	2083675 837	750918 963	Uranium-235	0 13	0 09	0 094	0 0	0 5	8	1900	pCi/g
	CE47-004	2083675 837	750918 963	Uranium-238	4 70	1 20	2 000	0 0	0 5	351	1600	pCi/g
	CE47-004	2083675 837	750918 963	Vanadium	164 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE47-009	2083639 019	750921 129	Barium	595 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-009	2083639 019	750921 129	Copper	74 20	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-009	*2083639 019*	*750921 129*	*Uranium-234*	*4 60*	*1 27*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-009	2083639 019	750921 129	Uranium-235	0 27	0 11	0 094	0 0	0 5	8	1900	pCi/g
	CE47-009	2083639 019	750921 129	Uranium-238	4 60	1 27	2 000	0 0	0 5	351	1600	pCi/g
	CE47-009	2083639 019	750921 129	Vanadium	169 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE48-006	2083658 511	750966 610	Barium	666 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-006	2083658 511	750966 610	Benzyl Alcohol	1600 00	88 00	NA	0 0	0 5	307000000	NA	ug/kg
	CE48-006	2083658 511	750966 610	Copper	79 80	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-006	*2083658 511*	*750966 610*	*Uranium-234*	*4 80*	*1 41*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-006	2083658 511	750966 610	Uranium-235	0 25	0 11	0 094	0 0	0 5	8	1900	pCi/g
	CE48-006	2083658 511	750966 610	Uranium-238	4 80	1 41	2 000	0 0	0 5	351	1600	pCi/g
	CE48-006	2083658 511	750966 610	Vanadium	161 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE48-007	2083683 056	750986 102	Barium	566 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-007	2083683 056	750986 102	Copper	70 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-007	*2083683 056*	*750986 102*	*Uranium-234*	*2 80*	*1 67*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-007	2083683 056	750986 102	Uranium-238	2 80	1 67	2 000	0 0	0 5	351	1600	pCi/g
	CE48-007	2083683 056	750986 102	Vanadium	107 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE49-012	*2083598 842*	*751172 2400*	*Uranium-234*	*3 059*	*1 380*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CE49-012	2083598 842	751172 2400	Uranium-235	0 171	0 090	0 12	4 5	6 5	8	1900	pCi/g
	CE49-012	2083598 842	751172 2400	Uranium-238	3 059	1 380	1 49	4 5	6 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF47-005	2083781 238	750890 086	Arsenic	17 00	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-005	2083781 238	750890 086	Barium	1010 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-005	2083781 238	750890 086	Copper	85 10	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-005	*2083781 238*	*750890 086*	*Uranium-234*	*5 30*	*1 37*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF47-005	2083781 238	750890 086	Uranium-235	0 29	0 11	0 094	0 0	0 5	8	1900	pCi/g
	CF47-005	2083781 238	750890 086	Uranium-238	5 30	1 37	2 000	0 0	0 5	351	1600	pCi/g
	CF47-005	2083781 238	750890 086	Vanadium	117 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-012	2083754 526	750974 551	Barium	566 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-012	2083754 526	750974 551	Copper	42 20	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-012	2083754 526	750974 551	Di-n-butylphthalate	75 00	70 00	NA	0 0	0 5	73700000	NA	ug/kg
	CF48-012	2083754 526	750974 551	Uranium-235	0 24	0 12	0 094	0 0	0 5	8	1900	pCi/g
	CF48-012	2083754 526	750974 551	Vanadium	157 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-012	*2083754 526*	*750974 5510*	*Uranium,Total*	*16 04*	*6 26*	*3 04*	*1 0*	*2 5*	*2750*	*67 8*	*pCi/g*
	CF48-012	*2083754 526*	*750974 5510*	*Uranium-234*	*5 400*	*2 11*	*2 6*	*1 0*	*2 5*	*300*	*1800*	*pCi/g*
	CF48-012	2083754 526	750974 551	Uranium-235	0 24	0 14	0 094	1 0	2 5	8	1900	pCi/g
	CF48-012	2083754 526	750974 5510	Uranium-238	5 400	2 11	1 49	1 0	2 5	351	1600	pCi/g
	CF48-012	*2083754 526*	*750974 5510*	*Uranium,Total*	10 99	6 16	*3 04*	2 5	4 5	*2750*	*67 8*	*pCi/g*
	CF48-012	*2083754 526*	*750974 5510*	*Uranium-234*	*3 7*	*2 07*	*2 6*	*2 5*	*4 5*	*300*	*1800*	*pCi/g*
	CF48-012	2083754 526	750974 551	Uranium-235	0 34	0 13	0 094	2 5	4 5	8	1900	pCi/g
	CF48-012	2083754 526	750974 5510	Uranium-238	3 7	2 07	1 49	2 5	4 5	351	1600	pCi/g
	CF48-013	2083748 751	750966 610	Barium	651 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-013	2083748 751	750966 610	Chromium	106 00	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CF48-013	2083748 751	750966 610	Copper	97 50	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-013	*2083748 751*	*750966 610*	*Uranium-234*	*3 40*	*1 77*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-013	2083748 751	750966 610	Uranium-235	0 14	0 11	0 094	0 0	0 5	8	1900	pCi/g
	CF48-013	2083748 751	750966 610	Uranium-238	3 40	1 77	2 000	0 0	0 5	351	1600	pCi/g
	CF48-013	2083748 751	750966 610	Vanadium	180 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CF48-021	2083811 960	750975 659	4-Methyl-2-pentanone	9	52	-	0 8	1 0	16400000	-	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-021	2083811 960	750975 659	Acetone	30	100	-	0 8	1 0	102000000	211000	ug/kg
	CF48-021	2083811 960	750975 659	Barium	746	98	289 38	0 8	1 0	26400	-	mg/kg
	CF48-021	2083811 960	750975 659	Copper	82 4	4	38 21	0 8	1 0	40900	-	mg/kg
	CF48-021	2083811 960	750975 659	Ethylbenzene	3	5 2	-	0 8	1 0	4250000	-	ug/kg
	CF48-021	**2083811 960**	**750975 659**	**Lead**	**31.7**	**7**	**24.97**	**0 8**	**1 0**	**1000**	**25.6**	**mg/kg**
	CF48-021	*2083811 960*	*750975 659*	*Uranium, Total*	*6 237*	*4 958727*	*3 04*	*0 8*	*1 0*	*2750*	*67 8*	*mg/kg*
	CF48-021	2083811 960	750975 659	Uranium-235	0 3	0 148294	0 12	0 8	1 0	8	1900	pCi/g
	CF48-021	2083811 960	750975 659	Uranium-238	2 1	1 669605	1 49	0 8	1 0	351	1600	pCi/g
	CF48-021	2083811 960	750975 659	Vanadium	105	31	88 49	0 8	1 0	7150	433	mg/kg
	CF48-021	2083811 960	750975 659	Xylene	21	10	-	0 8	1 0	2040000	-	ug/kg
	CF48-021	2083811 960	750975 659	Barium	791	98	289 38	0 8	1 3	26400	-	mg/kg
	CF48-021	2083811 960	750975 659	Copper	58 5	4	38 21	0 8	1 3	40900	-	mg/kg
	CF48-021	**2083811 960**	**750975 659**	**Lead**	**35 6**	**7**	**24 97**	**0 8**	**1 3**	**1000**	**25 6**	**mg/kg**
	CF48-021	*2083811 960*	*750975 659*	*Uranium, Total*	*7 722*	*4 059155*	*3 04*	*0 8*	*1 3*	*2750*	*67 8*	*mg/kg*
	CF48-021	2083811 960	750975 659	Uranium-235	0 14	0 125196	0 12	0 8	1 3	8	1900	pCi/g
	CF48-021	2083811 960	750975 659	Uranium-238	2 6	1 366719	1 49	0 8	1 3	351	1600	pCi/g
	CF48-021	2083811 960	750975 659	Vanadium	115	31	88 49	0 8	1 3	7150	433	mg/kg
	CF48-021	2083811 960	750975 659	Xylene	16	10	-	0 8	1 3	2040000	-	ug/kg
	CE48-025	2083684 818	750993 441	Barium	1020 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-025	2083684 818	750993 441	Copper	57 90	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-025	2083684 818	750993 441	Di-n-butylphthalate	380 00	67 00	NA	0 0	0 5	73700000	NA	ug/kg
	CE48-025	*2083684 818*	*750993 441*	*Uranium-234*	*2 10*	*1 78*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-025	2083684 818	750993 441	Uranium-235	0 16	0 14	0 094	0 0	0 5	8	1900	pCi/g
	CE48-025	2083684 818	750993 441	Uranium-238	2 10	1 78	2 000	0 0	0 5	351	1600	pCi/g
	CE48-025	2083684 818	750993 441	Vanadium	107 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE48-026	2083724 006	751010 236	4-Methyl-2-pentanone	65 00	58 00	NA	0 0	0 5	16400000	NA	ug/kg
	CE48-026	2083724 006	751010 236	Barium	646 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-026	2083724 006	751010 236	Phenol	110 00	61 00	NA	0 0	0 5	613000000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-026	2083724 006	751010 236	Vanadium	118 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-022	2084098 600	750984 589	Acetone	27	110	-	0 0	0 5	102000000	211000	ug/kg
	CG48-022	2084098 600	750984 589	Arsenic	11 1	5	10 09	0 0	0 5	22 2	21 6	mg/kg
	CG48-022	2084098 600	750984 589	Barium	660	98	141 26	0 0	0 5	26400	-	mg/kg
	CG48-022	2084098 600	750984 589	Benzo(a)anthracene	2300	49	-	0 0	0 5	34900	800000	ug/kg
	CG48-022	2084098 600	750984 589	Benzo(a)pyrene	2800	64	-	0 0	0 5	3490	25700	ug/kg
	CG48-022	2084098 600	750984 589	Benzo(b)fluoranthene	890	79	-	0 0	0 5	34900	1010000	ug/kg
	CG48-022	2084098 600	750984 589	Benzo(k)fluoranthene	270	85	-	0 0	0 5	349000	1010000	ug/kg
	CG48-022	2084098 600	750984 589	Chromium	47	20	16 99	0 0	0 5	268	-	mg/kg
	CG48-022	2084098 600	750984 589	Chrysene	4400	43	-	0 0	0 5	3490000	-	ug/kg
	CG48-022	2084098 600	750984 589	Copper	52 2	4	18 06	0 0	0 5	40900	-	mg/kg
	CG48-022	2084098 600	750984 589	Dibenz(a,h)anthracene	890	78	-	0 0	0 5	3490	-	ug/kg
	CG48-022	2084098 600	750984 589	Fluoranthene	170	49	-	0 0	0 5	27200000	-	ug/kg
	CG48-022	2084098 600	750984 589	Indeno(1,2,3-cd)pyrene	570	55	-	0 0	0 5	34900	-	ug/kg
	CG48-022	2084098 600	750984 589	Iron	34200	2190	18037	0 0	0 5	307000	-	mg/kg
	CG48-022	2084098 600	750984 589	Nickel	50 1	12	14 91	0 0	0 5	20400	-	mg/kg
	CG48-022	2084098 600	750984 589	Pyrene	1100	70	-	0 0	0 5	22100000	-	ug/kg
	CG48-022	2084098 600	750984 589	Strontium	133	20	48 94	0 0	0 5	613000	-	mg/kg
	CG48-022	*2084098 600*	*750984 589*	*Uranium, Total*	*8 8209*	*6 059*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CG48-022	*2084098 600*	*750984 589*	*Uranium, Total*	*10 098*	*6 908*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CG48-022	*2084098 600*	*750984 589*	*Uranium-234*	*3 4*	*2 326*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-022	2084098 600	750984 589	Uranium-235	0 21	0 153	0 0939	0 0	0 5	8	1900	pCi/g
	CG48-022	2084098 600	750984 589	Uranium-238	3 4	2 326	2	0 0	0 5	351	1600	pCi/g
	CG48-022	2084098 600	750984 589	Vanadium	118	31	45 59	0 0	0 5	7150	433	mg/kg
	CG48-022	2084098 600	750984 589	Zinc	87 8	9	73 76	0 0	0 5	307000	-	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
Tank 8-OPWL –East and West Process Tanks Miscellaneous Tanks	CE49-008	2083695 019	751217 860	Barium	713	98 000	141 26	0	0 5	26400	-	mg/kg
	CE49-008	2083695 019	751217 860	Benzo(a)anthracene	98	43 000	-	0	0 5	34900	800000	ug/kg
	CE49-008	2083695 019	751217 860	Benzo(a)pyrene	120	56 000	-	0	0 5	3490	25700	ug/kg
	CE49-008	2083695 019	751217 860	Benzo(b)fluoranthene	86	69 000	-	0	0 5	34900	1010000	ug/kg
	CE49-008	2083695 019	751217 860	Benzo(k)fluoranthene	120	74 000	-	0	0 5	349000	1010000	ug/kg
	CE49-008	2083695 019	751217 860	Chromium	87 6	20 000	16 99	0	0 5	268	-	mg/kg
	CE49-008	2083695 019	751217 860	Chrysene	120	37 000	-	0	0 5	3490000	-	ug/kg
	CE49-008	2083695 019	751217 860	Copper	171	4 000	18 06	0	0 5	40900	-	mg/kg
	CE49-008	2083695 019	751217 860	Fluoranthene	150	43 000	-	0	0 5	27200000	-	ug/kg
	CE49-008	2083695 019	751217 860	Indeno(1,2,3-cd)pyrene	55	48 000	-	0	0 5	34900	-	ug/kg
	CE49-008	2083695 019	751217 860	Iron	47500	2190 000	18037	0	0 5	307000	-	mg/kg
	CE49-008	2083695 019	751217 860	Manganese	1260	158 000	365 08	0	0 5	3480	-	mg/kg
	CE49-008	2083695 019	751217 860	Nickel	79 9	12 000	14 91	0	0 5	20400	-	mg/kg
	CE49-008	2083695 019	751217 860	Pyrene	160	61 000	-	0	0 5	22100000	-	ug/kg
	CE49-008	2083695 019	751217 860	Strontium	491	20 000	48 94	0	0 5	613000	-	mg/kg
	CE49-008	2083695 019	751217 860	Uranium, Total	8 0487	4 871	5 98	0	0 5	2750	67 8	mg/kg
	CE49-008	2083695 019	751217 860	Uranium, Total	8 93673	5 408	5 98	0	0 5	2750	67 8	mg/kg
	CE49-008	2083695 019	751217 860	Uranium-234	3 009	1 64	2 253	0	0 5	300	1800	pCi/g
	CE49-008	2083695 019	751217 860	Uranium-235	0 1421	0 116	0 0939	0	0 5	8	1900	pCi/g
	CE49-008	2083695 019	751217 860	Uranium-238	3 009	1 164	2	0	0 5	351	1600	pCi/g
	CE49-008	2083695 019	751217 860	Zinc	130	9 000	73 76	0	0 5	307000	-	mg/kg
	CE49-008	2083695 019	751217 860	Vanadium	93 4	31 00	45 59	0	0 5	7150	433	mg/kg
	CE49-008	2083695 019	751217 860	Anthracene	110 000	69 000	NA	0 5	2 5	204000000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Benzo(a)anthracene	480 000	41 000	NA	0 5	2 5	34900	800000	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-008	2083695 019	751217 860	Benzo(a)pyrene	520 000	54 000	NA	0 5	2 5	34900	25700	ug/kg
	CE49-008	2083695 019	751217 860	Benzo(b)fluoranthene	450 000	67 000	NA	0 5	2 5	34900	1010000	ug/kg
	CE49-008	2083695 019	751217 860	Bis(2-ethylhexyl)phthalate	110 000	74 000	NA	0 5	2 5	1970000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Butylbenzylphthalate	110 000	68 000	NA	0 5	2 5	147000000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Chromium	73 900	20 000	68 27	0 5	2 5	268	NA	mg/kg
	CE49-008	2083695 019	751217 860	Chrysene	540 000	36 000	NA	0 5	2 5	3490000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Copper	132 000	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CE49-008	2083695 019	751217 860	Dibenz(a,h)anthracene	120 000	66 000	NA	0 5	2 5	3490	NA	ug/kg
	CE49-008	2083695 019	751217 860	Fluoranthene	770 000	41 000	NA	0 5	2 5	27200000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Indeno(1,2,3-cd)pyrene	260 000	47 000	NA	0 5	2 5	34900	NA	ug/kg
	CE49-008	2083695 019	751217 860	Iron	42400 000	2190 000	41046 52	0 5	2 5	307000	NA	mg/kg
	CE49-008	**2083695 019**	**751217 860**	**Lead**	**26 000**	**0 220**	**24.97**	**0.5**	**2 5**	**1000**	**25.6**	**mg/kg**
	CE49-008	2083695 019	751217 860	Pyrene	910 000	59 000	NA	0 5	2 5	22100000	NA	ug/kg
	CE49-008	2083695 019	751217 860	Strontium	273 000	20 000	211 38	0 5	2 5	613000	NA	mg/kg
	CE49-008	2083695 019	751217 860	Zinc	260 000	9 000	139 1	0 5	2 5	307000	NA	mg/kg
	CE49-008	2083695 019	751217 860	Barium	638 000	98 000	289 38	11 0	13 0	26400	NA	mg/kg
	CE49-008	*2083695 019*	*751217 860*	*Uranium-234*	*4 253*	*1 440*	*2 6*	*11 0*	*13 0*	*300*	*1800*	*pCi/g*
	CE49-008	2083695 019	751217 860	Uranium-235	0 266	0 134	0 12	11 0	13 0	8	1900	pCi/g
	CE49-008	2083695 019	751217 860	Uranium-238	4 253	1 440	1 49	11 0	13 0	351	1600	pCi/g
	CE49-008	2083695 019	751217 860	Vanadium	150 000	31 000	88 49	11 0	13 0	7150	433	mg/kg
	CE49-009	2083708 276	751217 858	Acenaphthene	99	50	-	0	0 5	40800000	-	ug/kg
	CE49-009	2083708 276	751217 858	Anthracene	230	72	-	0	0 5	204000000	-	ug/kg
	CE49-009	2083708 276	751217 858	Barium	711	98	141 26	0	0 5	26400	-	mg/kg
	CE49-009	2083708 276	751217 858	Benzo(a)anthracene	800	43	-	0	0 5	34900	800000	ug/kg
	CE49-009	2083708 276	751217 858	Benzo(a)pyrene	810	57	-	0	0 5	3490	25700	ug/kg
	CE49-009	2083708 276	751217 858	Benzo(b)fluoranthene	700	70	-	0	0 5	34900	1010000	ug/kg
	CE49-009	2083708 276	751217 858	Benzo(k)fluoranthene	800	76	-	0	0 5	349000	1010000	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-009	2083708 276	751217 858	Chromium	32	0 08	16 99	0	0 5	268	-	mg/kg
	CE49-009	2083708 276	751217 858	Chrysene	880	38	-	0	0 5	3490000	-	ug/kg
	CE49-009	2083708 276	751217 858	Cobalt	11	0 08	10 91	0	0 5	1550	-	mg/kg
	CE49-009	2083708 276	751217 858	Copper	50	0 21	18 06	0	0 5	40900	-	mg/kg
	CE49-009	2083708 276	751217 858	Dibenz(a,h)anthracene	170	69	-	0	0 5	3490	-	ug/kg
	CE49-009	2083708 276	751217 858	Fluoranthene	1500	43	-	0	0 5	27200000	-	ug/kg
	CE49-009	2083708 276	751217 858	Fluorene	89	60	-	0	0 5	40800000	-	ug/kg
	CE49-009	2083708 276	751217 858	Indeno(1,2,3-cd)pyrene	460	49	-	0	0 5	34900	-	ug/kg
	CE49-009	2083708 276	751217 858	Iron	26000	1 8	18037	0	0 5	307000	-	mg/kg
	CE49-009	2083708 276	751217 858	Manganese	500	0 041	365 08	0	0 5	3480	-	mg/kg
	CE49-009	2083708 276	751217 858	Naphthalene	59	47	-	0	0 5	3090000	-	ug/kg
	CE49-009	2083708 276	751217 858	Nickel	32	0 2	14 91	0	0 5	20400	-	mg/kg
	CE49-009	2083708 276	751217 858	Pyrene	1600	62	-	0	0 5	22100000	-	ug/kg
	CE49-009	2083708 276	751217 858	Strontium	70	0 056	48 94	0	0 5	613000	-	mg/kg
	CE49-009	2083708 276	751217 858	Tin	3 6	0 35	2 9	0	0 5	613000	-	mg/kg
	CE49-009	2083708 276	751217 858	Uranium, Total	7 5	4 46	5 98	0	0 5	2750	67 8	mg/kg
	CE49-009	2083708 276	751217 858	Uranium, Total	8 2	4 86	5 98	0	0 5	2750	67 8	mg/kg
	CE49-009	2083708 276	751217 858	Uranium-234	2 75	1 64	2 253	0	0 5	300	1800	pCi/g
	CE49-009	2083708 276	751217 858	Uranium-235	0 12	9 31	0 0939	0	0 5	8	1900	pCi/g
	CE49-009	2083708 276	751217 858	Uranium-238	2 75	1 64	2	0	0 5	351	1600	pCi/g
	CE49-009	2083708 276	751217 858	Vanadium	68	0 16	45 59	0	0 5	7150	433	mg/kg
	CE49-009	2083708 276	751217 858	Zinc	112	9	73 76	0	0 5	307000	-	mg/kg
	CE49-009	2083708 276	751217 858	Barium	673 000	98 000	289 38	0 5	2 5	26400	NA	mg/kg
	CE49-009	2083708 276	751217 858	Copper	126 000	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CE49-009	**2083708 276**	**751217 858**	**Lead**	**33.900**	**7.000**	**24.97**	**0 5**	**2 5**	**1000**	**25.6**	**mg/kg**
	CE49-009	2083708 276	751217 858	Strontium	248 000	20 000	211 38	0 5	2 5	613000	NA	mg/kg
	CE49-009	2083708 276	751217 858	Uranium-235	0 287	0 147	0 12	0 5	2 5	8	1900	pCi/g
	CE49-009	2083708 276	751217 858	Vanadium	123 000	31 000	88 49	0 5	2 5	7150	433	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-009	2083708 276	751217 858	Zinc	191 000	9 000	139 1	0 5	2 5	307000	NA	mg/kg
	CE49-009	*2083708 276*	*751217 858*	*Uranium-234*	*4 444*	*1 470*	*2 6*	*11 0*	*13 0*	*300*	*1800*	*pCi/g*
	CE49-009	2083708 276	751217 858	Uranium-238	4 444	1 470	1 49	11 0	13 0	351	1600	pCi/g
	CG48-011	2084113 720	751032 738	Arsenic	20 20	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-011	2084113 720	751032 738	Barium	764 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-011	2084113 720	751032 738	Benzo(a)anthracene	110 00	42 00	NA	0 0	0 5	34900	800000	ug/kg
	CG48-011	2084113 720	751032 738	Benzo(a)pyrene	150 00	55 00	NA	0 0	0 5	3490	25700	ug/kg
	CG48-011	2084113 720	751032 738	Chromium	50 10	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CG48-011	2084113 720	751032 738	Chrysene	200 00	37 00	NA	0 0	0 5	3490000	NA	ug/kg
	CG48-011	2084113 720	751032 738	Copper	103 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-011	2084113 720	751032 738	Indeno(1,2,3-cd)pyrene	51 00	48 00	NA	0 0	0 5	34900	NA	ug/kg
	CG48-011	2084113 720	751032 738	Iron	42300 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-011	2084113 720	751032 738	Manganese	387 00	158 00	365 080	0 0	0 5	3480	NA	mg/kg
	CG48-011	2084113 720	751032 738	Nickel	61 40	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-011	2084113 720	751032 738	Strontium	170 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-011	*2084113 720*	*751032 738*	*Uranium-234*	*3 40*	*1 64*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-011	2084113 720	751032 738	Uranium-238	3 40	1 64	2 000	0 0	0 5	351	1600	pCi/g
	CG48-011	2084113 720	751032 738	Vanadium	136 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-011	2084113 720	751032 738	Zinc	90 50	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CG48-012	2084114 856	751013 428	Barium	675 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-012	2084114 856	751013 428	Benzo(a)anthracene	230 00	48 00	NA	0 0	0 5	34900	800000	ug/kg
	CG48-012	2084114 856	751013 428	Benzo(a)pyrene	320 00	63 00	NA	0 0	0 5	3490	25700	ug/kg
	CG48-012	2084114 856	751013 428	Benzyl Alcohol	360 00	100 00	NA	0 0	0 5	307000000	NA	ug/kg
	CG48-012	2084114 856	751013 428	Chromium	40 50	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CG48-012	2084114 856	751013 428	Chrysene	450 00	42 00	NA	0 0	0 5	3490000	NA	ug/kg
	CG48-012	2084114 856	751013 428	Copper	81 60	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-012	2084114 856	751013 428	Iron	24100 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-012	2084114 856	751013 428	Nickel	38 30	12 00	14 910	0 0	0 5	20400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-012	2084114 856	751013 428	Strontium	161 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-012	2084114 856	751013 428	Uranium-235	0 10	0 06	0 094	0 0	0 5	8	1900	pCi/g
	CG48-012	2084114 856	751013 428	Vanadium	120 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-012	2084114 856	751013 428	Xylene	17 00	12 00	NA	0 0	0 5	2040000	NA	ug/kg
	CG48-012	2084114 856	751013 428	Zinc	103 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CG48-013	2083979 689	751086 123	Arsenic	15 40	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-013	2083979 689	751086 123	Barium	664 00	98 00	141 260	0	0 5	26400	NA	mg/kg
	CG48-013	2083979 689	751086 123	Benzo(a)anthracene	120 00	46 00	NA	0 0	0 5	34900	800000	ug/kg
	CG48-013	2083979 689	751086 123	Benzo(a)pyrene	140 00	61 00	NA	0 0	0 5	3490	25700	ug/kg
	CG48-013	2083979 689	751086 123	Benzo(b)fluoranthene	100 00	75 00	NA	0 0	0 5	34900	1010000	ug/kg
	CG48-013	2083979 689	751086 123	Benzo(k)fluoranthene	120 00	81 00	NA	0 0	0 5	349000	1010000	ug/kg
	CG48-013	2083979 689	751086 123	Chromium	30 20	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CG48-013	2083979 689	751086 123	Chrysene	140 00	40 00	NA	0 0	0 5	3490000	NA	ug/kg
	CG48-013	2083979 689	751086 123	Copper	63 70	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-013	2083979 689	751086 123	Fluoranthene	290 00	46 00	NA	0 0	0 5	27200000	NA	ug/kg
	CG48-013	2083979 689	751086 123	Indeno(1,2,3-cd)pyrene	86 00	52 00	NA	0 0	0 5	34900	NA	ug/kg
	CG48-013	2083979 689	751086 123	Iron	34800 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-013	2083979 689	751086 123	Nickel	42 70	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-013	2083979 689	751086 123	Pyrene	280 00	66 00	NA	0 0	0 5	22100000	NA	ug/kg
	CG48-013	2083979 689	751086 123	Strontium	173 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-013	*2083979 689*	*751086 123*	*Uranium-234*	*5 30*	*1 68*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-013	2083979 689	751086 123	Uranium-238	5 30	1 68	2 000	0 0	0 5	351	1600	pCi/g
	CG48-013	2083979 689	751086 123	Vanadium	115 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-013	2083979 689	751086 123	Zinc	111 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
Tanks 14 and 16	CH48-017	2084157 880	751040 548	Americium-241	0 410	0 152	0 02	5 5	7 5	76	1900	pCi/g
	CH48-017	2084157 880	751040 540	Barium	590 000	98 000	289 38	5 5	7 5	26400	NA	mg/kg
	CH48-017	2084157 880	751040 548	Copper	101 000	4 000	38 21	5 5	7 5	40900	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-017	*2084157 880*	*751040 548*	*Plutonium-239/240*	*0 603*	*0 021*	*0 02*	*5 5*	*7 5*	*50*	*3800*	*pCi/g*
	CH48-017	2084157 880	751040 548	Vanadium	138 000	31 000	88 49	5 5	7 5	7150	433	mg/kg
	CH48-017	2084157 880	751040 548	Zinc	342 000	9 000	139 1	5 5	7 5	307000	NA	mg/kg
	CH48-018	2084150 627	751008 538	Americium-241	1 020	0 299	0 02	12 5	14 5	76	1900	pCi/g
	CH48-018	2084150 627	751008 538	Barium	571 000	98 000	289 38	12 5	14 5	26400	NA	mg/kg
	CH48-018	*2084150 627*	*751008 538*	*Plutonium-239/240*	*2 060*	*0 067*	*0 02*	*12 5*	*14 5*	*50/116*	*3800*	*pCi/g*
	CH48-018	2084150 627	751008 538	Vanadium	105 000	31 000	88 49	12 5	14 5	7150	433	mg/kg
	CH48-019	2084166 664	751017 524	Barium	534 000	98 000	289 38	11 5	13 5	26400	NA	mg/kg
	CH48-019	2084166 664	751017 524	Copper	123 000	4 000	38 21	11 5	13 5	40900	NA	mg/kg
	CH48-019	*2084166 664*	*751017 524*	*Uranium-234*	*4 111*	*2 780*	*2 6*	*11 5*	*13 5*	*300*	*1800*	*pCi/g*
	CH48-019	2084166 664	751017 524	Uranium-235	0 228	0 125	0 12	11 5	13 5	8	1900	pCi/g
	CH48-019	2084166 664	751017 524	Uranium-238	4 111	2 780	1 49	11 5	13 5	351	1600	pCi/g
	CH48-019	2084166 664	751017 524	Vanadium	146 000	31 000	88 49	11 5	13 5	7150	433	mg/kg
IHSS 700-125 – Abandoned Sump Near Building 774 Unit 55 13 T-40 *(All depths start below* building slab)	CG48-006	2084095 604	751097 309	Arsenic	13 90	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-006	2084095 604	751097 309	Barium	564 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-006	2084095 604	751097 309	Copper	114 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-006	*2084095 604*	*751097 309*	*Uranium-234*	*3 78*	*1 51*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-006	2084095 604	751097 309	Uranium-238	3 78	1 51	2 000	0 0	0 5	351	1600	pCi/g
	CG48-006	2084095 604	751097 309	Vanadium	202 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-023	2083724 010	751097 30	Acetone	27	5	-	0 0	0 5	102000000	211000	ug/kg
	CG48-023	2083724 010	751097 30	Americium-241	4 896	0 481	0 02	0 0	0 5	76	1900	pCi/g
	CG48-023	2083724 010	751097 30	Barium	619	98	289 38	0 0	0 5	26400	-	mg/kg
	CG48-023	*2083724 010*	*751097 30*	*Plutonium-239/240*	*1 32*	*0 079*	*0 02*	*0 0*	*0 5*	*50*	*3800*	*pCi/g*
	CG48-023	2083724 010	751097 30	Vanadium	115	31	88 49	0 0	0 5	7150	433	mg/kg
	CG48-023	2084095 6	751097 3	Uranium, Total	7 5438	4 0689	3 04	0 83	1 33	2750	67 8	mg/kg
	CG48-023	2084095 6	751097 3	Uranium-234	3 172	1 37	2 64	0 83	1 33	300	1800	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-023	2084095 6	751097 3	Uranium-235	0 1761	0 115	0 12	0 83	1 33	8	1900	pCi/g
	CG48-023	2084095 6	751097 3	Uranium-238	3 172	1 37	1 49	0 83	1 33	351	1600	pCi/g
	CG48-007	2084126 123	751097 231	Americium-241	1 35	0 60	0 023	0 0	0 5	76	1900	pCi/g
	CG48-007	2084126 123	751097 231	Arsenic	13 70	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-007	2084126 123	751097 231	Barium	1700 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-007	2084126 123	751097 231	Copper	230 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-007	2084126 123	751097 231	Nickel	71 90	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-007	*2084126 123*	*751097 231*	*Plutonium-239/240*	*14 17*	*0 60*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CG48-007	*2084126 123*	*751097 231*	*Uranium-234*	*4 67*	*1 72*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-007	2084126 123	751097 231	Uranium-238	4 67	1 72	2 000	0 0	0 5	351	1600	pCi/g
	CG48-007	2084126 123	751097 231	Vanadium	156 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-007	2084126 123	751097 231	Zinc	189 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CG48-008	**2084126.045**	**751068.741**	**Americium-241**	**1220.00**	**70.30**	**0 023**	**0.0**	**0.5**	**76**	**1900**	**pCi/g**
	CG48-008	2084126 045	751068 741	Barium	541 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-008	2084126 045	751068 741	Copper	85 90	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-008	***2084126 045***	***751068 741***	***Plutonium-239/240***	***1690 00***	***66 00***	***0 066***	***0 0***	***0 5***	***50***	***3800***	***pCi/g***
	CG48-008	*2084126 045*	*751068 741*	*Uranium-234*	*2 94*	*0 42*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-008	2084126 045	751068 741	Uranium-238	2 94	0 42	2 253	0 0	0 5	351	1600	pCi/g
	CG48-008	2084126 045	751068 741	Vanadium	174 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-009	**2084095 838**	**751069 053**	**Americium-241**	**116 40**	**1 32**	**0 023**	**0 0**	**0 5**	**76**	**1900**	**pCi/g**
	CG48-009	2084095 838	751069 053	Barium	488 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-009	2084095 838	751069 053	Chromium	35 60	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CG48-009	2084095 838	751069 053	Copper	32 90	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-009	2084095 838	751069 053	Iron	20900 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-009	2084095 838	751069 053	Nickel	32 50	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-009	***2084095 838***	***751069 053***	***Plutonium-239/240***	***943 75***	***1 32***	***0 066***	***0 0***	***0 5***	***50/116***	***3800***	***pCi/g***
	CG48-009	2084095 838	751069 053	Strontium	103 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-009	*2084095 838*	*751069 053*	*Uranium-234*	*3 02*	*1 43*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-009	2084095 838	751069 053	Uranium-235	0 34	0 18	0 094	0 0	0 5	8	1900	pCi/g
	CG48-009	2084095 838	751069 053	Uranium-238	3 02	1 43	2 000	0 0	0 5	351	1600	pCi/g
	CG48-009	2084095 838	751069 053	Vanadium	96 90	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-009	2084095 838	751069 053	Zinc	91 20	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CG48-010	2084110 200	751082 557	Americium-241	1 29	0 52	0 023	0 0	0 5	76	1900	pCi/g
	CG48-010	2084110 200	751082 557	Arsenic	14 50	5 00	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-010	2084110 200	751082 557	Barium	583 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-010	2084110 200	751082 557	Chromium	31 80	20 00	16 990	0 0	0 5	268	NA	mg/kg
	CG48-010	2084110 200	751082 557	Copper	130 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-010	2084110 200	751082 557	Iron	23900 00	2190 00	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-010	2084110 200	751082 557	Nickel	46 50	12 00	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-010	*2084110 200*	*751082 557*	*Plutonium-239/240*	*13 66*	*0 52*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CG48-010	2084110 200	751082 557	Strontium	117 00	20 00	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-010	*2084110 200*	*751082 557*	*Uranium-234*	*5 20*	*1 49*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-010	2084110 200	751082 557	Uranium-235	0 28	0 12	0 094	0 0	0 5	8	1900	pCi/g
	CG48-010	2084110 200	751082 557	Uranium-238	5 20	1 49	2 000	0 0	0 5	351	1600	pCi/g
	CG48-010	2084110 200	751082 557	Vanadium	211 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CG48-010	2084110 200	751082 557	Zinc	159 00	9 00	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-024	*2083613 420*	*751136 354*	*Uranium-234*	*3 013*	*1 320*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CE48-024	2083613 420	751136 354	Uranium-235	0 134	0 088	0 12	4 5	6 5	8	1900	pCi/g
	CE48-024	2083613 420	751136 354	Uranium-238	3 013	1 320	1 49	4 5	6 5	351	1600	pCi/g
	CE49-000	2083697 462	751185 699	Barium	548 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CE49-000	2083697 462	751185 699	Copper	134 000	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CE49-000	*2083697 462*	*751185 699*	*Uranium-234*	*4 204*	*1 600*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CE49-000	2083697 462	751185 699	Uranium-235	0 404	0 182	0 12	4 5	6 5	8	1900	pCi/g
	CE49-000	2083697 462	751185 699	Uranium-238	4 204	1 600	1 49	4 5	6 5	351	1600	pCi/g
	CE49-000	2083697 462	751185 699	Vanadium	149 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
	CF48-018	*2083921 848*	*751127 211*	*Uranium-234*	*3 323*	*1 760*	*2 6*	*1 5*	*3 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-018	2083921 848	751127 211	Uranium-235	0 231	0 125	0 12	1 5	3 5	8	1900	pCi/g
	CF48-018	2083921 848	751127 211	Uranium-238	3 323	1 760	1 49	1 5	3 5	351	1600	pCi/g
	CF49-017	2083781 676	751190 430	Americium-241	0 094	0 077	0 02	4 5	6 5	76	1900	pCi/g
	CG47-002	2084093 865	750889 982	Arsenic	15 500	5 000	13 14	4 5	6 5	22 2	21 6	mg/kg
	CG47-002	2084093 865	750889 982	Barium	613 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CG47-002	2084093 865	750889 982	Copper	62 000	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CG47-002	*2084093 865*	*750889 982*	*Uranium-234*	*4 424*	*1 240*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CG47-002	2084093 865	750889 982	Uranium-235	0 196	0 139	0 12	4 5	6 5	8	1900	pCi/g
	CG47-002	2084093 865	750889 982	Uranium-238	4 424	1 240	1 49	4 5	6 5	351	1600	pCi/g
	CG47-002	2084093 865	750889 982	Vanadium	139 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
	CG47-003	2084102 832	750900 030	Americium-241	0 356	0 224	0 02	4 5	6 5	76	1900	pCi/g
	CG47-003	2084102 832	750900 030	Arsenic	20 000	5 000	13 14	4 5	6 5	22 2	21 6	mg/kg
	CG47-003	2084102 832	750900 030	Barium	520 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CG47-003	2084102 832	750900 030	Copper	102 000	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CG47-003	2084102 832	750900 030	Iron	41900 000	2190 000	41046 52	4 5	6 5	307000	NA	mg/kg
	CG47-003	*2084102 832*	*750900 030*	*Plutonium-239/240*	*0 142*	*0 019*	*0 02*	*4 5*	*6 5*	*50/116*	*3800*	*pCi/g*
	CG47-003	*2084102 832*	*750900 030*	*Uranium-234*	*2 473*	*1 540*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CG47-003	2084102 832	750900 030	Uranium-235	0 260	0 241	0 12	4 5	6 5	8	1900	pCi/g
	CG47-003	2084102 832	750900 030	Uranium-238	2 473	1 540	1 49	4 5	6 5	351	1600	pCi/g
	CG47-003	2084102 832	750900 030	Vanadium	134 000	0 160	88 49	4 5	6 5	7150	433	mg/kg
	CG48-004	2084011 530	751137 132	Barium	603 000	98 000	289 38	2 5	4 5	26400	NA	mg/kg
	CG48-004	2084011 530	751137 132	Copper	83 400	4 000	38 21	2 5	4 5	40900	NA	mg/kg
	CG48-004	*2084011 530*	*751137 132*	*Uranium-234*	*2 678*	*1 300*	*2 6*	*2 5*	*4 5*	*300*	*1800*	*pCi/g*
	CG48-004	2084011 530	751137 132	Uranium-238	2 678	1 300	1 49	2 5	4 5	351	1600	pCi/g
	CG48-004	2084011 530	751137 132	Vanadium	165 000	31 000	88 49	2 5	4 5	7150	433	mg/kg
	CG48-004	2084011 530	751137 132	Zinc	146 000	9 000	139 1	2 5	4 5	307000	NA	mg/kg
	CG48-005	2084171 654	751067 076	Aroclor-1254	42 000	5 200	NA	2 5	4 5	12400	371000	ug/kg
	CG48-005	2084171 654	751067 076	Barium	696 000	98 000	289 38	2 5	4 5	26400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-005	2084171 654	751067 076	Bis(2-ethylhexyl)phthalate	240 000	77 000	NA	2 5	4 5	1970000	NA	ug/kg
	CG48-005	2084171 654	751067 076	Chrysene	69 000	38 000	NA	2 5	4 5	3490000	NA	ug/kg
	CG48-005	2084171 654	751067 076	Copper	207 000	4 000	38 21	2 5	4 5	40900	NA	mg/kg
	CG48-005	2084171 654	751067 076	Fluoranthene	150 000	43 000	NA	2 5	4 5	27200000	NA	ug/kg
	CG48-005	2084171 654	751067 076	Pyrene	150 000	62 000	NA	2 5	4 5	22100000	NA	ug/kg
	CG48-005	2084171 654	751067 076	Strontium	286 000	20 000	211 38	2 5	4 5	613000	NA	mg/kg
	CG48-005	*2084171 654*	*751067 076*	*Uranium-234*	*5 428*	*1 960*	*2 6*	*2 5*	*4 5*	*300*	*1800*	*pCi/g*
	CG48-005	2084171 654	751067 076	Uranium-235	0 261	0 133	0 12	2 5	4 5	8	1900	pCi/g
	CG48-005	2084171 654	751067 076	Uranium-238	5 428	1 960	1 49	2 5	4 5	351	1600	pCi/g
	CG48-005	2084171 654	751067 076	Vanadium	118 000	31 000	88 49	2 5	4 5	7150	433	mg/kg
	CG48-005	2084171 654	751067 076	Zinc	308 000	9 000	139 1	2 5	4 5	307000	NA	mg/kg
	CG49-007	2084098 136	751197 333	Uranium, Total	7 0686	5 52	5 98	0	0 5	2750	67 8	mg/kg
	CG49-007	*2084098 136*	*751197 333*	*Uranium-234*	*2 77*	*2 17*	*2 253*	*0*	*0 5*	*300*	*1800*	*pCi/g*
	CG49-007	2084098 136	751197 333	Uranium-235	0 1944	0 14	0 0939	0	0 5	8	1900	pCi/g
	CG49-007	2084098 136	751197 333	Uranium-238	2 77	2 17	2	0	0 5	351	1600	pCi/g
	CH48-003	2084182 715	751049 072	Arsenic	15 500	5 000	13 14	4 5	6 5	22 2	21 6	mg/kg
	CH48-003	2084182 715	751049 072	Barium	545 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CH48-003	2084182 715	751049 072	Copper	94 100	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CH48-003	*2084182 715*	*751049 072*	*Uranium-234*	*4 018*	*1 610*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CH48-003	2084182 715	751049 072	Uranium-235	0 306	0 129	0 12	4 5	6 5	8	1900	pCi/g
	CH48-003	2084182 715	751049 072	Uranium-238	4 018	1 610	1 49	4 5	6 5	351	1600	pCi/g
	CH48-003	2084182 715	751049 072	Vanadium	153 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
	CH48-004	**2084184 407**	**750994.441**	**Arsenic**	**24.800**	**5 000**	**13 14**	**4.5**	**6.5**	**22.2**	**21.6**	**mg/kg**
	CH48-004	2084184 407	750994 441	Barium	401 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CH48-004	2084184 407	750994 441	Copper	198 000	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CH48-004	*2084184 407*	*750994 441*	*Uranium-234*	*2 309*	*1 080*	*1 49*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CH48-004	2084184 407	750994 441	Uranium-238	2 309	1 080	1 49	4 5	6 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-004	2084184 407	750994 441	Vanadium	103 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
Buildings 771 and 776 Tunnel	CE47-022	2083696 625	750928 227	Americium-241	0 04	0 03	0 023	0 0	0 5	76	1900	pCi/g
	CE47-022	2083696 625	750928 227	Barium	878 00	98 00	141 260	0 0	0 5	26400	NA	mg/kg
(All depths start below building slab)	CE47-022	2083696 625	750928 227	bis(2-Ethylhexyl)phthalate	150 00	85 00	NA	0 0	0 5	1970000	NA	ug/kg
	CE47-022	2083696 625	750928 227	Cadmium	10 10	3 00	1 612	0 0	0 5	962	NA	mg/kg
	CE47-022	2083696 625	750928 227	Copper	175 00	4 00	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-022	2083696 625	750928 227	Uranium-234	3 910	0 093	2 3	0 0	0 5	300	1800	pCi/g
	CE47-022	2083696 625	750928 227	Uranium-235	0 63	0 19	0 094	0 0	0 5	8	1900	pCi/g
	CE47-022	2083696 625	750928 227	Uranium-238	3 56	0 19	2 000	0 0	0 5	351	1600	pCi/g
	CE47-022	2083696 625	750928 227	Vanadium	105 00	31 00	45 590	0 0	0 5	7150	433	mg/kg
	CE47-022	2083696 625	750928 227	Xylene	40 00	12 00	NA	0 0	0 5	2040000	NA	ug/kg
	CE47-023	2083725 533	750766 477	Americium-241	0 203	0 096	0 023	0 0	0 5	76	1900	pCi/g
	CE47-023	2083725 533	750766 477	Barium	520 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-023	2083725 533	750766 477	Chloroform	9 800	6 500	NA	0 0	0 5	19200	101000	ug/kg
	CE47-023	2083725 533	750766 477	Copper	134 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-023	2083725 533	750766 477	Vanadium	235 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-023	2083725 533	750766 477	Xylene	25 000	13 000	NA	0 0	0 5	2040000	NA	ug/kg
	CE47-023	2083725 533	750766 477	Zinc	152 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE46-001	2083707 065	750662 186	4-Methyl-2-pentanone	73 000	61 000	NA	0 0	0 5	16400000	NA	ug/kg
	CE46-001	2083707 065	750662 186	Barium	350 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE46-001	2083707 065	750662 186	Chromium	35 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE46-001	2083707 065	750662 186	Copper	62 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE46-001	2083707 065	750662 186	Nickel	23 000	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE46-001	2083707 065	750662 186	Strontium	99 600	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE46-001	*2083707 065*	*750662 186*	*Uranium-234*	*3 300*	*1 250*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
700-150 2(N) - Radioactive Site West of Buildings 771/776	CE46-001	2083707 065	750662 186	Uranium-235	0 170	0 125	0 094	0 0	0 5	8	1900	pCi/g
	CE46-001	2083707 065	750662 186	Uranium-238	3 300	1 250	2 000	0 0	0 5	351	1600	pCi/g
	CE46-001	2083707 065	750662 186	Vanadium	166 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE46-001	2083707 065	750662 186	Xylene	14 000	12 000	NA	0 0	0 5	2040000	NA	ug/kg
	CD48-000	2083529 390	751000 938	Arsenic	12 100	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CD48-000	2083529 390	751000 938	Barium	800 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CD48-000	2083529 390	751000 938	Chromium	48 600	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CD48-000	2083529 390	751000 938	Copper	154 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CD48-000	2083529 390	751000 938	Iron	32700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CD48-000	2083529 390	751000 938	Manganese	477 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CD48-000	2083529 390	751000 938	Nickel	44 800	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CD48-000	2083529 390	751000 938	Strontium	196 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CD48-000	*2083529 390*	*751000 938*	*Uranium-234*	*2 597*	*1 040*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CD48-000	2083529 390	751000 938	Uranium-238	2 597	1 040	2 000	0 0	0 5	351	1600	pCi/g
	CD48-000	2083529 390	751000 938	Vanadium	109 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CD48-000	2083529 390	751000 938	Zinc	116 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CD48-001	2083535 820	750965 504	Barium	651 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CD48-001	2083535 820	750965 504	Benzo(a)anthracene	64 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CD48-001	2083535 820	750965 504	Chromium	52 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CD48-001	2083535 820	750965 504	Chrysene	64 000	38 000	NA	0 0	0 5	3490000	NA	ug/kg
	CD48-001	2083535 820	750965 504	Copper	151 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CD48-001	2083535 820	750965 504	Fluoranthene	140 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg
	CD48-001	2083535 820	750965 504	Iron	28800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CD48-001	2083535 820	750965 504	Nickel	43 000	12 000	14 910	0 0	0 5	20400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CD48-001	2083535 820	750965 504	Pyrene	150 000	63 000	NA	0 0	0 5	22100000	NA	ug/kg
	CD48-001	2083535 820	750965 504	Strontium	141 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CD48-001	*2083535 820*	*750965 504*	*Uranium-234*	*3 724*	*1 460*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CD48-001	2083535 820	750965 504	Uranium-235	0 254	0 123	0 094	0 0	0 5	8	1900	pCi/g
	CD48-001	2083535 820	750965 504	Uranium-238	3 724	1 460	2 000	0 0	0 5	351	1600	pCi/g
	CD48-001	2083535 820	750965 504	Vanadium	156 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CD48-001	2083535 820	750965 504	Zinc	161 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-001	751004 394	2083597 88	Arsenic	10 4	5	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-001	751004 394	2083597 88	Barium	695	98	141 259	0 0	0 5	26400	NA	mg/kg
	CE48-001	751004 394	2083597 88	Chromium	60	20	16 990	0 0	0 5	268	NA	mg/kg
	CE48-001	751004 394	2083597 88	Copper	163	4	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-001	751004 394	2083597 88	Iron	26800	2190	18037	0 0	0 5	307000	NA	mg/kg
	CE48-001	751004 394	2083597 88	Nickel	38 6	12	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-001	751004 394	2083597 88	Strontium	146	20	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-001	751004 394	2083597 88	Tin	4 1	4	2 9	0 0	0 5	613000	NA	mg/kg
	CE48-001	751004 394	2083597 88	Uranium, Total	9 801	5 474	5 98	0 0	0 5	2750	67 8	mg/kg
	CE48-001	751004 394	2083597 88	Uranium-234	3 3	1 843	2 253	0 0	0 5	300	1800	pCi/g
	CE48-001	751004 394	2083597 88	Uranium-235	0 24	0 147	0 094	0 0	0 5	8	1900	pCi/g
	CE48-001	751004 394	2083597 88	Uranium-238	3 3	1 843	2	0 0	0 5	351	1600	pCi/g
	CE48-001	751004 394	2083597 88	Vanadium	211	31	45 590	0 0	0 5	7150	433	mg/kg
	CE48-001	751004 394	2083597 88	Zinc	160	9	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-009	2083641 800	751129 707	Arsenic	12 100	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-009	2083641 800	751129 707	Barium	811 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-009	2083641 800	751129 707	Copper	123 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-009	2083641 800	751129 707	Iron	27300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-009	2083641 800	751129 707	Nickel	36 400	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-009	2083641 800	751129 707	Strontium	281 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-009	*2083641 800*	*751129 707*	*Uranium-234*	*2 112*	*1 310*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-009	2083641 800	751129 707	Uranium-235	0 198	0 086	0 094	0 0	0 5	8	1900	pCi/g
	CE48-009	2083641 800	751129 707	Uranium-238	2 112	1 310	2 000	0 0	0 5	351	1600	pCi/g
	CE48-009	2083641 800	751129 707	Zinc	84 200	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-010	2083609 000	751140 562	Arsenic	10 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-010	2083609 000	751140 562	Barium	487 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-010	2083609 000	751140 562	Chromium	39 300	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-010	2083609 000	751140 562	Copper	110 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-010	2083609 000	751140 562	Iron	30200 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-010	2083609 000	751140 562	Manganese	484 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-010	2083609 000	751140 562	Nickel	45 600	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-010	2083609 000	751140 562	Strontium	223 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-010	*2083609 000*	*751140 562*	*Uranium-234*	*3 997*	*1 500*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-010	2083609 000	751140 562	Uranium-235	0 214	0 120	0 094	0 0	0 5	8	1900	pCi/g
	CE48-010	2083609 000	751140 562	Uranium-238	3 997	1 500	2 000	0 0	0 5	351	1600	pCi/g
	CE48-010	2083609 000	751140 562	Vanadium	110 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-010	2083609 000	751140 562	Zinc	450 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-011	2083505 400	751106 199	Arsenic	13 100	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-011	2083505 400	751106 199	Barium	316 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-011	2083505 400	751106 199	Benzo(a)anthracene	79 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-011	2083505 400	751106 199	Benzo(a)pyrene	91 000	58 000	NA	0 0	0 5	3490	25700	ug/kg
	CE48-011	2083505 400	751106 199	Benzo(b)fluoranthene	78 000	71 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-011	2083505 400	751106 199	Benzo(k)fluoranthene	78 000	77 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-011	2083505 400	751106 199	bis(2-Ethylhexyl)phthalate	290 000	79 000	NA	0 0	0 5	1970000	NA	ug/kg
	CE48-011	2083505 400	751106 199	Chromium	90 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-011	2083505 400	751106 199	Chrysene	98 000	39 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-011	2083505 400	751106 199	Copper	108 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-011	2083505 400	751106 199	Fluoranthene	170 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-011	2083505 400	751106 199	Iron	32600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-011	**2083505 400**	**751106 199**	**Lead**	**108 000**	**7.000**	**54.620**	**0.0**	**0.5**	**1000**	**25.6**	**mg/kg**
	CE48-011	2083505 400	751106 199	Manganese	498 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-011	2083505 400	751106 199	Nickel	58 600	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-011	2083505 400	751106 199	Pyrene	160 000	64 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-011	2083505 400	751106 199	Strontium	196 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-011	*2083505 400*	*751106 199*	*Uranium-234*	*2 260*	*1 760*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-011	2083505 400	751106 199	Uranium-235	0 216	0 148	0 094	0 0	0 5	8	1900	pCi/g
	CE48-011	2083505 400	751106 199	Uranium-238	2 260	1 760	2 000	0 0	0 5	351	1600	pCi/g
	CE48-011	2083505 400	751106 199	Vanadium	94 800	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-011	2083505 400	751106 199	Zinc	253 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-012	2083630 960	750964 572	2-Methylnaphthalene	910 000	38 000	NA	0 0	0 5	20400000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Acenaphthene	4600 000	48 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Arsenic	12 200	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-012	2083630 960	750964 572	Barium	192 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-012	2083630 960	750964 572	Benzo(A)anthracene	16000	420	NA	0 0	0 5	34900	800000	ug/kg
	CE48-012	**2083630 960**	**750964 572**	**Benzo(A)pyrene**	**16000**	**550**	**NA**	**0 0**	**0 5**	**3490**	**25700**	**ug/kg**
	CE48-012	2083630 960	750964 572	Benzo(B)fluoranthene	13000	680	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-012	2083630 960	750964 572	Benzo(K)fluoranthene	14000	730	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-012	2083630 960	750964 572	Chrysene	19000	360	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Chromium	49 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-012	2083630 960	750964 572	Copper	67 800	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-012	2083630 960	750964 572	Dibenzofuran	2700 000	54 000	NA	0 0	0 5	2950000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Fluoranthene	33000	420	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Fluorene	3600 000	58 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Indeno(1,2,3-CD)pyrene	9500	470	NA	0 0	0 5	34900	NA	ug/kg
	CE48-012	2083630 960	750964 572	Iron	31100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-012	2083630 960	750964 572	Manganese	368 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-012	2083630 960	750964 572	Naphthalene	1000 000	45 000	NA	0 0	0 5	3090000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Nickel	44 400	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-012	2083630 960	750964 572	Pyrene	34000	460	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-012	2083630 960	750964 572	Strontium	134 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-012	*2083630 960*	*750964 572*	*Uranium-234*	*4 243*	*1 190*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-012	2083630 960	750964 572	Uranium-235	0 311	0 116	0 094	0 0	0 5	8	1900	pCi/g
	CE48-012	2083630 960	750964 572	Uranium-238	4 243	1 190	2 000	0 0	0 5	351	1600	pCi/g
	CE48-012	2083630 960	750964 572	Vanadium	145 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-012	2083630 960	750964 572	Zinc	125 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-011	2083637 740	750929 184	Acenaphthene	57 000	55 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-011	2083637 740	750929 184	Aluminum	27000 000	2 500	16902 000	0 0	0 5	228000	NA	mg/kg
	CE47-011	2083637 740	750929 184	Arsenic	11 000	0 450	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-011	2083637 740	750929 184	Barium	150 000	0 4100	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-011	2083637 740	750929 184	Benzo(a)anthracene	150 000	48 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-011	2083637 740	750929 184	Benzo(a)pyrene	160 000	63 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-011	2083637 740	750929 184	Benzo(b)fluoranthene	120 000	77 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-011	2083637 740	750929 184	Benzo(k)fluoranthene	170 000	83 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-011	2083637 740	750929 184	Beryllium	1 300	0 041	0 966	0 0	0 5	921	2 15	mg/kg
	CE47-011	2083637 740	750929 184	Chromium	27 000	0 087	16 990	0 0	0 5	268	NA	mg/kg
	CE47-011	2083637 740	750929 184	Chrysene	220 000	42 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-011	2083637 740	750929 184	Copper	63 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-011	2083637 740	750929 184	Fluoranthene	380 000	48 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-011	2083637 740	750929 184	Indeno(1,2,3-cd)pyrene	94 000	54 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-011	2083637 740	750929 184	Iron	23000 000	1 900	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-011	2083637 740	750929 184	Lithium	14 000	0 130	11 550	0 0	0 5	20400	NA	mg/kg
	CE47-011	2083637 740	750929 184	Nickel	23 000	0 220	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-011	2083637 740	750929 184	Pyrene	390 000	69 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-011	2083637 740	750929 184	Selenium	1 600	0 600	1 224	0 0	0 5	5110	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-011	2083637 740	750929 184	Strontium	51 000	0 600	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-011	*2083637 740*	*750929 184*	*Total Uranium*	*11 20*	*5 326*	*5 982*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CE47-011	*2083637 740*	*750929 184*	*Uranium-234*	*3 771*	*1 460*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-011	2083637 740	750929 184	Uranium-235	0 304	0 138	0 094	0 0	0 5	8	1900	pCi/g
	CE47-011	2083637 740	750929 184	Uranium-238	3 771	1 460	2 000	0 0	0 5	351	1600	pCi/g
	CE47-011	2083637 740	750929 184	Vanadium	57 000	0 170	45 590	0 0	0 5	7150	433	mg/kg
	CE47-011	2083637 740	750929 184	Zinc	109 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-018	2083542 170	750930 086	Acenaphthene	49 000	48 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Anthracene	98 000	70 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Barium	702 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-018	2083542 170	750930 086	Benzo(a)anthracene	480 000	42 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-018	2083542 170	750930 086	Benzo(a)pyrene	560 000	55 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-018	2083542 170	750930 086	Benzo(b)fluoranthene	530 000	68 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-018	2083542 170	750930 086	Benzo(k)fluoranthene	480 000	73 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-018	2083542 170	750930 086	bis(2-Ethylhexyl)phthalate	160 000	75 000	NA	0 0	0 5	1970000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Chromium	42 100	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-018	2083542 170	750930 086	Chrysene	600 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Copper	77 100	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-018	2083542 170	750930 086	Dibenz(a,h)anthracene	120 000	67 000	NA	0 0	0 5	3490	NA	ug/kg
	CE47-018	2083542 170	750930 086	Fluoranthene	1100 000	42 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Indeno(1,2,3-cd)pyrene	340 000	47 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-018	2083542 170	750930 086	Iron	28600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-018	2083542 170	750930 086	Manganese	505 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-018	2083542 170	750930 086	Nickel	33 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-018	2083542 170	750930 086	Pyrene	820 000	60 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-018	2083542 170	750930 086	Strontium	160 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-018	*2083542 170*	*750930 086*	*Uranium-234*	*3 471*	*1 430*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-018	2083542 170	750930 086	Uranium-235	0 217	0 121	0 094	0 0	0 5	8	1900	pCi/g
	CE47-018	2083542 170	750930 086	Uranium-238	3 471	1 430	2 000	0 0	0 5	351	1600	pCi/g
	CE47-018	2083542 170	750930 086	Vanadium	79 800	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-018	2083542 170	750930 086	Zinc	309 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-019	2083548 620	750894 757	Arsenic	18 200	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-019	2083548 620	750894 757	Barium	473 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-019	2083548 620	750894 757	Benzo(a)anthracene	56 000	42 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-019	2083548 620	750894 757	Benzo(a)pyrene	70 000	55 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-019	2083548 620	750894 757	Chromium	26 900	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-019	2083548 620	750894 757	Chrysene	70 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-019	2083548 620	750894 757	Copper	67 200	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-019	2083548 620	750894 757	Fluoranthene	110 000	42 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-019	2083548 620	750894 757	Nickel	17 300	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-019	2083548 620	750894 757	Pyrene	94 000	60 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-019	2083548 620	750894 757	Strontium	283 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-019	*2083548 620*	*750894 757*	*Uranium-234*	*2 706*	*1 230*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-019	2083548 620	750894 757	Uranium-238	2 706	1 230	2 000	0 0	0 5	351	1600	pCi/g
	CE47-019	2083548 620	750894 757	Vanadium	62 100	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-020	2083555 130	750859 097	Acenaphthene	93 000	48 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-020	2083555 130	750859 097	Anthracene	110 000	69 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE47-020	2083555 130	750859 097	Arsenic	13 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-020	2083555 130	750859 097	Barium	675 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-020	2083555 130	750859 097	Benzo(a)anthracene	310 000	41 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-020	2083555 130	750859 097	Benzo(a)pyrene	350 000	54 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-020	2083555 130	750859 097	Benzo(b)fluoranthene	260 000	67 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-020	2083555 130	750859 097	Benzo(k)fluoranthene	350 000	72 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-020	2083555 130	750859 097	Chromium	34 100	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-020	2083555 130	750859 097	Chrysene	360 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-020	2083555 130	750859 097	Copper	151 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-020	2083555 130	750859 097	Fluoranthene	840 000	41 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-020	2083555 130	750859 097	Fluorene	61 000	57 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-020	2083555 130	750859 097	Indeno(1,2,3-cd)pyrene	220 000	47 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-020	2083555 130	750859 097	Iron	35300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-020	2083555 130	750859 097	Manganese	469 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-020	2083555 130	750859 097	Nickel	47 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-020	2083555 130	750859 097	Pyrene	590 000	59 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-020	2083555 130	750859 097	Strontium	186 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-020	2083555 130	750859 097	Vanadium	147 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-020	2083555 130	750859 097	Zinc	167 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-013	2083586 480	751118 234	Acenaphthene	120 000	53 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Anthracene	180 000	77 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Arsenic	12 600	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-013	2083586 480	751118 234	Barium	240 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-013	2083586 480	751118 234	Benzo(a)anthracene	350 000	46 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-013	2083586 480	751118 234	Benzo(a)pyrene	350 000	60 000	NA	0 0	0 5	3490	25700	ug/kg
	CE48-013	2083586 480	751118 234	Benzo(b)fluoranthene	320 000	74 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-013	2083586 480	751118 234	Benzo(k)fluoranthene	360 000	80 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-013	2083586 480	751118 234	Chromium	46 600	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-013	2083586 480	751118 234	Chrysene	380 000	40 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Copper	68 500	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-013	2083586 480	751118 234	Dibenz(a,h)anthracene	99 000	73 000	NA	0 0	0 5	3490	NA	ug/kg
	CE48-013	2083586 480	751118 234	Di-n-octylphthalate	11000 000	250 000	NA	0 0	0 5	14700000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Fluoranthene	840 000	46 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Fluorene	83 000	64 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Indeno(1,2,3-cd)pyrene	220 000	52 000	NA	0 0	0 5	34900	NA	ug/kg
	CE48-013	2083586 480	751118 234	Iron	31600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-013	2083586 480	751118 234	Manganese	413 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-013	2083586 480	751118 234	Nickel	44 800	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-013	2083586 480	751118 234	Pyrene	680 000	66 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-013	2083586 480	751118 234	Strontium	200 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-013	*2083586 480*	*751118 234*	*Uranium-234*	*3 811*	*1 210*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-013	2083586 480	751118 234	Uranium-235	0 199	0 088	0 094	0 0	0 5	8	1900	pCi/g
	CE48-013	2083586 480	751118 234	Uranium-238	3 811	1 210	2 000	0 0	0 5	351	1600	pCi/g
	CE48-013	2083586 480	751118 234	Vanadium	128 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-013	2083586 480	751118 234	Zinc	181 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-014	2083577 940	751082 916	Arsenic	14 800	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-014	2083577 940	751082 916	Barium	248 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-014	2083577 940	751082 916	Benzo(a)anthracene	55 000	47 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-014	2083577 940	751082 916	Benzo(a)pyrene	71 000	61 000	NA	0 0	0 5	3490	25700	ug/kg
	CE48-014	2083577 940	751082 916	Chromium	46 200	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-014	2083577 940	751082 916	Chrysene	71 000	41 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-014	2083577 940	751082 916	Copper	65 800	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-014	2083577 940	751082 916	Fluoranthene	120 000	47 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-014	2083577 940	751082 916	Iron	33300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-014	2083577 940	751082 916	Manganese	459 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-014	2083577 940	751082 916	Nickel	47 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-014	2083577 940	751082 916	Pyrene	120 000	67 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-014	2083577 940	751082 916	Strontium	149 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-014	*2083577 940*	*751082 916*	*Uranium-234*	*6 076*	*1 530*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-014	2083577 940	751082 916	Uranium-238	6 076	1 530	2 000	0 0	0 5	351	1600	pCi/g
	CE48-014	2083577 940	751082 916	Vanadium	154 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-014	2083577 940	751082 916	Zinc	173 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-015	2083597 190	750976 547	Acenaphthene	120 000	55 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-015	2083597 190	750976 547	Anthracene	380 000	80 000	NA	0 0	0 5	204000000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-015	2083597 190	750976 547	Arsenic	10 600	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-015	2083597 190	750976 547	Barium	238 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-015	2083597 190	750976 547	Benzo(a)anthracene	1300 000	48 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-015	2083597 190	750976 547	Benzo(a)pyrene	1400 000	62 000	NA	0 0	0 5	3490	25700	ug/kg
	CE48-015	2083597 190	750976 547	Benzo(b)fluoranthene	1300 000	77 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-015	2083597 190	750976 547	Benzo(k)fluoranthene	1200 000	83 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-015	2083597 190	750976 547	Chromium	62 200	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-015	2083597 190	750976 547	Chrysene	1500 000	42 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-015	2083597 190	750976 547	Copper	74 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-015	2083597 190	750976 547	Dibenz(a,h)anthracene	290 000	76 000	NA	0 0	0 5	3490	NA	ug/kg
	CE48-015	2083597 190	750976 547	Fluoranthene	2600 000	48 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-015	2083597 190	750976 547	Fluorene	110 000	66 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-015	2083597 190	750976 547	Indeno(1,2,3-cd)pyrene	780 000	54 000	NA	0 0	0 5	34900	NA	ug/kg
	CE48-015	2083597 190	750976 547	Iron	28700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-015	2083597 190	750976 547	Nickel	45 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-015	2083597 190	750976 547	Pyrene	2400 000	69 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-015	2083597 190	750976 547	Strontium	130 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-015	2083597 190	750976 547	Uranium-235	0 147	0 086	0 094	0 0	0 5	8	1900	pCi/g
	CE48-015	2083597 190	750976 547	Vanadium	120 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-015	2083597 190	750976 547	Zinc	139 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-012	2083603 580	750941 287	Acenaphthene	950 000	47 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-012	2083603 580	750941 287	Arsenic	10 600	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-012	2083603 580	750941 287	Barium	641 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-012	2083603 580	750941 287	Benzo(A)anthracene	22000	410	NA	0 0	0 5	34900	800000	ug/kg
	CE47-012	**2083603 580**	**750941.287**	**Benzo(A)pyrene**	**23000**	**530**	**NA**	**0 0**	**0.5**	**3490**	**25700**	**ug/kg**
	CE47-012	2083603 580	750941 287	Benzo(B)fluoranthene	19000	660	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-012	2083603 580	750941 287	Bemzo(K)fluoranthene	20000	710	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-012	2083603 580	750941 287	Chrysene	24000	350	NA	0 0	0 5	3490000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-012	2083603 580	750941 287	Copper	93 100	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-012	**2083603 580**	**750941 287**	**Dibenz(a,h)anthracene**	**5500.000**	**65.000**	**NA**	**0.0**	**0 5**	**3490**	**NA**	**ug/kg**
	CE47-012	2083603 580	750941 287	Dibenzofuran	330 000	52 000	NA	0 0	0 5	2950000	NA	ug/kg
	CE47-012	2083603 580	750941 287	Fluoranthene	42000	NA	0 0	0 5	272000 00	NA	ug/kg	NA
	CE47-012	2083603 580	750941 287	Fluorene	1300 000	56 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-012	2083603 580	750941 287	Indeno(1,2,3-CD)pyrene	16000	NA	0 0	0 5	34900	NA	ug/kg	NA
	CE47-012	2083603 580	750941 287	Iron	66900 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-012	2083603 580	750941 287	Manganese	1680 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-012	2083603 580	750941 287	Nickel	56 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-012	2083603 580	750941 287	Pyrene	41000	NA	0 0	0 5	221000 00	NA	ug/kg	NA
	CE47-012	2083603 580	750941 287	Strontium	148 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-012	*2083603 580*	*750941 287*	*Uranium-234*	*3 334*	*1 460*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-012	2083603 580	750941 287	Uranium-235	0 186	0 127	0 094	0 0	0 5	8	1900	pCi/g
	CE47-012	2083603 580	750941 287	Uranium-238	3 334	1 460	2 000	0 0	0 5	351	1600	pCi/g
	CE47-012	2083603 580	750941 287	Vanadium	203 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-012	2083603 580	750941 287	Zinc	241 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-013	2083609 820	750905 490	2-Methylnaphthalene	120 000	40 000	NA	0 0	0 5	20400000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Acenaphthene	600 000	51 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Anthracene	1100 000	74 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Barium	799 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-013	2083609 820	750905 490	Benzo(a)anthracene	1300 000	45 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-013	2083609 820	750905 490	Benzo(a)pyrene	1200 000	58 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-013	2083609 820	750905 490	Benzo(b)fluoranthene	870 000	72 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-013	2083609 820	750905 490	Benzo(k)fluoranthene	970 000	78 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-013	2083609 820	750905 490	Chromium	44 600	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-013	2083609 820	750905 490	Chrysene	1300 000	39 000	NA	0 0	0 5	3490000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-013	2083609 820	750905 490	Copper	80 800	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-013	2083609 820	750905 490	Dibenz(a,h)anthracene	400 000	71 000	NA	0 0	0 5	3490	NA	ug/kg
	CE47-013	2083609 820	750905 490	Dibenzofuran	350 000	57 000	NA	0 0	0 5	2950000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Fluoranthene	3400 000	45 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Fluorene	610 000	62 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Indeno(1,2,3-cd)pyrene	820 000	50 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-013	2083609 820	750905 490	Iron	37900 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-013	2083609 820	750905 490	Naphthalene	320 000	48 000	NA	0 0	0 5	3090000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Nickel	40 400	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-013	2083609 820	750905 490	Pyrene	2900 000	64 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-013	2083609 820	750905 490	Strontium	287 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-013	*2083609 820*	*750905 490*	*Uranium-234*	*4 383*	*1 590*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-013	2083609 820	750905 490	Uranium-235	0 254	0 159	0 094	0 0	0 5	8	1900	pCi/g
	CE47-013	2083609 820	750905 490	Uranium-238	4 383	1 590	2 000	0 0	0 5	351	1600	pCi/g
	CE47-013	2083609 820	750905 490	Vanadium	118 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-013	2083609 820	750905 490	Zinc	118 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-014	2083616 360	750870 394	Acenaphthene	240 000	48 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Anthracene	360 000	69 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Barium	767 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-014	2083616 360	750870 394	Benzo(a)anthracene	950 000	41 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-014	2083616 360	750870 394	Benzo(a)pyrene	1000 000	54 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-014	2083616 360	750870 394	Benzo(b)fluoranthene	820 000	67 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-014	2083616 360	750870 394	Benzo(k)fluoranthene	830 000	72 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-014	2083616 360	750870 394	Chromium	23 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-014	2083616 360	750870 394	Chrysene	1100 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Copper	144 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-014	2083616 360	750870 394	Fluoranthene	2200 000	41 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Fluorene	180 000	57 000	NA	0 0	0 5	40800000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-014	2083616 360	750870 394	Indeno(1,2,3-cd)pyrene	720 000	47 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-014	2083616 360	750870 394	Iron	29000 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-014	2083616 360	750870 394	Manganese	479 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-014	2083616 360	750870 394	Naphthalene	70 000	44 000	NA	0 0	0 5	3090000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Nickel	36 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-014	2083616 360	750870 394	Pyrene	2200 000	59 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-014	2083616 360	750870 394	Strontium	203 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-014	*2083616 360*	*750870 394*	*Uranium-234*	*4 007*	*1 370*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-014	2083616 360	750870 394	Uranium-235	0 227	0 113	0 094	0 0	0 5	8	1900	pCi/g
	CE47-014	2083616 360	750870 394	Uranium-238	4 007	1 370	2 000	0 0	0 5	351	1600	pCi/g
	CE47-014	2083616 360	750870 394	Vanadium	92 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-014	2083616 360	750870 394	Zinc	118 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-015	2083569 490	750948 167	Acenaphthene	62 000	49 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE47-015	2083569 490	750948 167	Anthracene	78 000	71 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE47-015	2083569 490	750948 167	Arsenic	14 100	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-015	2083569 490	750948 167	Barium	727 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-015	2083569 490	750948 167	Benzo(a)anthracene	170 000	43 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-015	2083569 490	750948 167	Benzo(a)pyrene	210 000	56 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-015	2083569 490	750948 167	Chromium	42 300	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-015	2083569 490	750948 167	Chrysene	200 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-015	2083569 490	750948 167	Copper	211 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-015	2083569 490	750948 167	Fluoranthene	420 000	43 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-015	2083569 490	750948 167	Iron	50500 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-015	2083569 490	750948 167	Manganese	1030 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE47-015	2083569 490	750948 167	Nickel	49 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-015	2083569 490	750948 167	Pyrene	480 000	61 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-015	2083569 490	750948 167	Strontium	161 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-015	*2083569 490*	*750948 167*	*Uranium-234*	*2 961*	*1 490*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-015	2083569 490	750948 167	Uranium-235	0 192	0 140	0 094	0 0	0 5	8	1900	pCi/g
	CE47-015	2083569 490	750948 167	Uranium-238	2 961	1 490	2 000	0 0	0 5	351	1600	pCi/g
	CE47-015	2083569 490	750948 167	Vanadium	180 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-015	2083569 490	750948 167	Zinc	239 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-016	2083576 040	750917 939	Barium	833 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-016	2083576 040	750917 939	Benzo(a)anthracene	130 000	42 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-016	2083576 040	750917 939	Benzo(a)pyrene	140 000	55 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-016	2083576 040	750917 939	Benzo(b)fluoranthene	110 000	68 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-016	2083576 040	750917 939	Benzo(k)fluoranthene	110 000	74 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-016	2083576 040	750917 939	Chrysene	150 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE47-016	2083576 040	750917 939	Copper	234 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-016	2083576 040	750917 939	Fluoranthene	250 000	42 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-016	2083576 040	750917 939	Indeno(1,2,3-cd)pyrene	76 000	48 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-016	2083576 040	750917 939	Pyrene	250 000	61 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-016	2083576 040	750917 939	Strontium	338 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-016	*2083576 040*	*750917 939*	*Uranium-234*	*4 600*	*1 860*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE47-016	2083576 040	750917 939	Uranium-235	0 310	0 170	0 094	0 0	0 5	8	1900	pCi/g
	CE47-016	2083576 040	750917 939	Uranium-238	4 600	1 860	2 000	0 0	0 5	351	1600	pCi/g
	CE47-016	2083576 040	750917 939	Vanadium	101 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-016	2083576 040	750917 939	Zinc	154 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE47-017	2083582 470	750882 553	Arsenic	10 800	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE47-017	2083582 470	750882 553	Barium	638 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE47-017	2083582 470	750882 553	Benzo(a)anthracene	180 000	43 000	NA	0 0	0 5	34900	800000	ug/kg
	CE47-017	2083582 470	750882 553	Benzo(a)pyrene	210 000	56 000	NA	0 0	0 5	3490	25700	ug/kg
	CE47-017	2083582 470	750882 553	Benzo(b)fluoranthene	180 000	69 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE47-017	2083582 470	750882 553	Benzo(k)fluoranthene	190 000	75 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE47-017	2083582 470	750882 553	Chromium	55 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE47-017	2083582 470	750882 553	Chrysene	220 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE47-017	2083582 470	750882 553	Copper	147 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE47-017	2083582 470	750882 553	Fluoranthene	440 000	43 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE47-017	2083582 470	750882 553	Indeno(1,2,3-cd)pyrene	120 000	48 000	NA	0 0	0 5	34900	NA	ug/kg
	CE47-017	2083582 470	750882 553	Iron	35300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE47-017	2083582 470	750882 553	Nickel	43 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE47-017	2083582 470	750882 553	Pyrene	370 000	61 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE47-017	2083582 470	750882 553	Strontium	132 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE47-017	2083582 470	750882 553	Uranium-235	0 119	0 087	0 094	0 0	0 5	8	1900	pCi/g
	CE47-017	2083582 470	750882 553	Vanadium	154 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE47-017	2083582 470	750882 553	Zinc	135 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-016	2083537 710	751130 541	Arsenic	11 000	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-016	2083537 710	751130 541	Barium	312 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-016	2083537 710	751130 541	Chromium	30 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-016	2083537 710	751130 541	Copper	58 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-016	2083537 710	751130 541	Iron	47600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-016	2083537 710	751130 541	Manganese	787 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-016	2083537 710	751130 541	Nickel	46 500	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-016	2083537 710	751130 541	Strontium	309 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-016	*2083537 710*	*751130 541*	*Uranium-234*	*3 560*	*1 530*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-016	2083537 710	751130 541	Uranium-235	0 195	0 122	0 094	0 0	0 5	8	1900	pCi/g
	CE48-016	2083537 710	751130 541	Uranium-238	3 560	1 530	2 000	0 0	0 5	351	1600	pCi/g
	CE48-016	2083537 710	751130 541	Vanadium	98 300	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-016	2083537 710	751130 541	Zinc	162 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-017	2083544 060	751095 089	Acenaphthene	60 000	47 000	NA	0 0	0 5	40800000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Anthracene	70 000	68 000	NA	0 0	0 5	204000000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Barium	694 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-017	2083544 060	751095 089	Benzo(a)anthracene	180 000	41 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-017	2083544 060	751095 089	Benzo(a)pyrene	200 000	53 000	NA	0 0	0 5	3490	25700	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-017	2083544 060	751095 089	Benzo(b)fluoranthene	190 000	66 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-017	2083544 060	751095 089	Benzo(k)fluoranthene	190 000	71 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-017	2083544 060	751095 089	bis(2-Ethylhexyl)phthalate	380 000	73 000	NA	0 0	0 5	1970000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Chromium	31 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-017	2083544 060	751095 089	Chrysene	240 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Copper	100 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-017	2083544 060	751095 089	Fluoranthene	460 000	41 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Indeno(1,2,3-cd)pyrene	110 000	46 000	NA	0 0	0 5	34900	NA	ug/kg
	CE48-017	2083544 060	751095 089	Iron	28100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-017	2083544 060	751095 089	Manganese	544 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-017	2083544 060	751095 089	Nickel	43 500	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-017	2083544 060	751095 089	Pyrene	370 000	59 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-017	2083544 060	751095 089	Strontium	286 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-017	*2083544 060*	*751095 089*	*Uranium-234*	*4 791*	*1 550*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-017	2083544 060	751095 089	Uranium-235	0 256	0 117	0 094	0 0	0 5	8	1900	pCi/g
	CE48-017	2083544 060	751095 089	Uranium-238	4 791	1 550	2 000	0 0	0 5	351	1600	pCi/g
	CE48-017	2083544 060	751095 089	Vanadium	113 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-017	2083544 060	751095 089	Zinc	107 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-018	2083550 490	751059 651	Arsenic	13 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-018	2083550 490	751059 651	Barium	262 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-018	2083550 490	751059 651	Chrysene	50 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-018	2083550 490	751059 651	Copper	72 600	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-018	2083550 490	751059 651	Fluoranthene	73 000	42 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-018	2083550 490	751059 651	Iron	49500 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-018	2083550 490	751059 651	Manganese	1080 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-018	2083550 490	751059 651	Nickel	46 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-018	2083550 490	751059 651	Pyrene	72 000	60 000	NA	0 0	0 5	22100000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-018	2083550 490	751059 651	Strontium	155 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-018	*2083550 490*	*751059 651*	*Uranium-234*	*3 114*	*1 100*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-018	2083550 490	751059 651	Uranium-235	0 132	0 093	0 094	0 0	0 5	8	1900	pCi/g
	CE48-018	2083550 490	751059 651	Uranium-238	3 114	1 100	2 000	0 0	0 5	351	1600	pCi/g
	CE48-018	2083550 490	751059 651	Vanadium	154 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-018	2083550 490	751059 651	Zinc	169 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-019	2083556 710	751024 376	Arsenic	16 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-019	2083556 710	751024 376	Barium	729 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-019	2083556 710	751024 376	Benzo(a)anthracene	110 000	41 000	NA	0 0	0 5	34900	800000	ug/kg
	CE48-019	2083556 710	751024 376	Benzo(a)pyrene	140 000	53 000	NA	0 0	0 5	3490	25700	ug/kg
	CE48-019	2083556 710	751024 376	Benzo(b)fluoranthene	120 000	66 000	NA	0 0	0 5	34900	1010000	ug/kg
	CE48-019	2083556 710	751024 376	Benzo(k)fluoranthene	130 000	71 000	NA	0 0	0 5	349000	1010000	ug/kg
	CE48-019	2083556 710	751024 376	Chromium	55 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-019	2083556 710	751024 376	Chrysene	150 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CE48-019	2083556 710	751024 376	Copper	68 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-019	2083556 710	751024 376	Fluoranthene	270 000	41 000	NA	0 0	0 5	27200000	NA	ug/kg
	CE48-019	2083556 710	751024 376	Indeno(1,2,3-cd)pyrene	79 000	46 000	NA	0 0	0 5	34900	NA	ug/kg
	CE48-019	2083556 710	751024 376	Iron	40300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-019	**2083556 710**	**751024.376**	**Lead**	**60 000**	**7.000**	**54 620**	**0 0**	**0 5**	**1000**	**25.6**	**mg/kg**
	CE48-019	2083556 710	751024 376	Manganese	692 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-019	2083556 710	751024 376	Nickel	47 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-019	2083556 710	751024 376	Pyrene	230 000	58 000	NA	0 0	0 5	22100000	NA	ug/kg
	CE48-019	2083556 710	751024 376	Strontium	250 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-019	*2083556 710*	*751024 376*	*Uranium-234*	*2 134*	*1 660*	*2 000*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-019	2083556 710	751024 376	Uranium-235	0 169	0 134	0 094	0 0	0 5	8	1900	pCi/g
	CE48-019	2083556 710	751024 376	Uranium-238	2 134	1 660	2 000	0 0	0 5	351	1600	pCi/g
	CE48-019	2083556 710	751024 376	Vanadium	130 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-019	2083556 710	751024 376	Zinc	228 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-023	*2083496 008*	*751033 594*	*Uranium, Total*	*13 585*	*5 61*	*3 04*	*4 5*	*6 5*	*2750*	*67 8*	*mg/kg*
	CE48-023	*2083496 008*	*751033 594*	*Uranium-234*	*4 574*	*1 89*	*2 64*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CE48-023	2083496 008	751033 594	Uranium-235	0 158	0 12	0 12	4 5	6 5	8	1900	pCi/g
	CE48-023	2083496 008	751033 594	Uranium-238	4 574	1 89	1 49	4 5	6 5	351	1600	pCi/g
	CF48-022	2083740 600	750985 237	Barium	564	98 000	289 38	1	1 5	26400	-	mg/kg
	CF48-022	2083740 600	750985 237	Copper	113	4 000	38 21	1	1 5	40900	-	mg/kg
	CF48-022	*2083740 600*	*750985 237*	*Uranium, Total*	*12 177*	*5 018*	*3 04*	*1*	*1 5*	*2750*	*67 8*	*mg/kg*
	CF48-022	*2083740 600*	*750985 237*	*Uranium-234*	*4 1*	*1 690*	*2 64*	*1*	*1 5*	*300*	*1800*	*pCi/g*
	CF48-022	2083740 600	750985 237	Uranium-235	0 27	0 142	0 12	1	1 5	8	1900	pCi/g
	CF48-022	2083740 600	750985 237	Uranium-238	4 1	1 690	1 49	1	1 5	351	1600	pCi/g
	CF48-022	2083740 600	750985 237	Vanadium	154	31 000	88 49	1	1 5	7150	433	mg/kg
	CF48-022	*2083740 600*	*750985 237*	*Uranium, Total*	*18 117*	*6 556*	*3 04*	*1 5*	*2 5*	*2750*	*67 8*	*mg/kg*
	CF48-022	*2083740 600*	*750985 237*	*Uranium-234*	*6 1*	*2 207*	*2 64*	*1 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF48-022	2083740 600	750985 237	Uranium-235	0 27	0 175	0 12	1 5	2 5	8	1900	pCi/g
	CF48-022	2083740 600	750985 237	Uranium-238	6 1	2 207	1 49	1 5	2 5	351	1600	pCi/g
	CF48-024	2083769 687	751003 428	1,4-Dichlorobenzene	170	5 000	-	1	1 5	840000	-	ug/kg
	CF48-024	2083769 687	751003 428	4-Methyl-2-pentanone	8	50 000	-	1	1 5	16400000	-	ug/kg
	CF48-024	2083769 687	751003 428	Acetone	460	100 000	211000	1	1 5	102000000	211000	ug/kg
	CF48-024	2083769 687	751003 428	Barium	748	98 000	-	1	1 5	26400	-	mg/kg
	CF48-024	2083769 687	751003 428	bis(2-Ethylhexyl)phthalate	440	71 000	-	1	1 5	1970000	-	ug/kg
	CF48-024	2083769 687	751003 428	Copper	43 1	4 000	-	1	1 5	40900	-	mg/kg
	CF48-024	**2083769.687**	**751003 428**	**Lead**	**32 7**	**7 000**	**25 6**	**1**	**1.5**	**1000**	**25 6**	**mg/kg**
	CF48-024	2083769 687	751003 428	Naphthalene	8 7	5 000	-	1	1 5	3090000	-	ug/kg
	CF48-024	*2083769 687*	*751003 428*	*Plutonium-239/240*	*0 632*	*0 022*	*3800*	*1*	*1 5*	*50*	*3800*	*pCi/g*
	CF48-024	2083769 687	751003 428	Strontium	264	20 000	-	1	1 5	613000	-	mg/kg
	CF48-024	2083769 687	751003 428	Toluene	13	5 000	128000	1	1 5	31300000	128000	ug/kg
	CF48-024	*2083769 687*	*751003 428*	*Uranium, Total*	*5 643*	*3 840*	*67 8*	*1*	*1 5*	*2750*	*67 8*	*mg/kg*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
700-163 1 - Radioactive Site 700 North of Building 774 (Area 3) Wash Area	CF48-024	2083769 687	751003 428	Uranium-235	0 242	0 212	1900	1	1 5	8	1900	pCi/g
	CF48-024	2083769 687	751003 428	Uranium-235	0 15	9 369	1900	1	1 5	8	1900	pCi/g
	CF48-024	2083769 687	751003 428	Uranium-238	1 9	1 293	1600	1	1 5	351	1600	pCi/g
	CF48-024	2083769 687	751003 428	Vanadium	129	31 000	433	1	1 5	7150	433	mg/kg
	CH48-005	2084304 120	751091 815	Acenaphthene	130 000	49 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Americium-241	0 505	0 395	0 023	0 0	0 5	76	1900	pCi/g
	CH48-005	2084304 120	751091 815	Anthracene	190 000	71 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Aroclor-1254	27 000	4 700	NA	0 0	0 5	12400	371000	ug/kg
	CH48-005	2084304 120	751091 815	Aroclor-1260	17 000	5 300	NA	0 0	0 5	12400	NA	ug/kg
	CH48-005	2084304 120	751091 815	Arsenic	11 000	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH48-005	2084304 120	751091 815	Barium	581 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-005	2084304 120	751091 815	Benzo(a)anthracene	490 000	43 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-005	2084304 120	751091 815	Benzo(a)pyrene	530 000	56 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-005	2084304 120	751091 815	Benzo(b)fluoranthene	450 000	69 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH48-005	2084304 120	751091 815	Benzo(k)fluoranthene	480 000	75 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH48-005	2084304 120	751091 815	Chromium	42 000	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-005	2084304 120	751091 815	Chrysene	530 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Copper	34 400	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-005	2084304 120	751091 815	Dibenz(a,h)anthracene	160 000	68 000	NA	0 0	0 5	3490	NA	ug/kg
	CH48-005	2084304 120	751091 815	Fluoranthene	1200 000	43 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Fluorene	98 000	59 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Indeno(1,2,3-cd)pyrene	350 000	48 000	NA	0 0	0 5	34900	NA	ug/kg
	CH48-005	2084304 120	751091 815	Iron	27800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-005	2084304 120	751091 815	Naphthalene	49 000	46 000	NA	0 0	0 5	3090000	NA	ug/kg
	CH48-005	2084304 120	751091 815	Nickel	34 900	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-005	*2084304 120*	*751091 815*	*Plutonium-239/240*	*7 321*	*0 395*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CH48-005	2084304 120	751091 815	Pyrene	1200 000	61 000	NA	0 0	0 5	22100000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-005	2084304 120	751091 815	Strontium	152 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-005	2084304 120	751091 815	Vanadium	120 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-005	2084304 120	751091 815	Zinc	96 400	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-006	2084268 290	751088 041	2-Methylnaphthalene	150 000	38 000	NA	0 0	0 5	20400000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Acenaphthene	1100 000	49 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Americium-241	1 291	0 491	0 023	0 0	0 5	76	1900	pCi/g
	CH48-006	2084268 290	751088 041	Anthracene	1200 000	71 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Aroclor-1254	96 000	4 700	NA	0 0	0 5	12400	371000	ug/kg
	CH48-006	2084268 290	751088 041	Aroclor-1260	49 000	5 300	NA	0 0	0 5	12400	NA	ug/kg
	CH48-006	2084268 290	751088 041	Barium	688 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-006	2084268 290	751088 041	Benzo(a)anthracene	3100 000	42 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-006	2084268 290	751088 041	Benzo(a)pyrene	2900 000	55 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-006	2084268 290	751088 041	Benzo(b)fluoranthene	2600 000	68 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH48-006	2084268 290	751088 041	Benzo(k)fluoranthene	2600 000	74 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH48-006	2084268 290	751088 041	bis(2-Ethylhexyl)phthalate	95 000	76 000	NA	0 0	0 5	1970000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Butylbenzylphthalate	100 000	70 000	NA	0 0	0 5	147000000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Chromium	31 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-006	2084268 290	751088 041	Chrysene	3500 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Copper	54 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-006	2084268 290	751088 041	Dibenz(a,h)anthracene	620 000	67 000	NA	0 0	0 5	3490	NA	ug/kg
	CH48-006	2084268 290	751088 041	Dibenzofuran	320 000	54 000	NA	0 0	0 5	2950000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Di-n-octylphthalate	61 000	57 000	NA	0 0	0 5	14700000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Fluoranthene	8000 000	85 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Fluorene	760 000	59 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Indeno(1,2,3-cd)pyrene	1800 000	48 000	NA	0 0	0 5	34900	NA	ug/kg
	CH48-006	2084268 290	751088 041	Iron	25800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-006	2084268 290	751088 041	Manganese	368 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-006	2084268 290	751088 041	Naphthalene	350 000	46 000	NA	0 0	0 5	3090000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Nickel	34 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-006	*2084268 290*	*751088 041*	*Plutonium-239/240*	*13 671*	*0 491*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CH48-006	2084268 290	751088 041	Pyrene	7300 000	120 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH48-006	2084268 290	751088 041	Strontium	165 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-006	*2084268 290*	*751088 041*	*Uranium-234*	*3 508*	*1 410*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-006	2084268 290	751088 041	Uranium-235	0 293	0 107	0 094	0 0	0 5	8	1900	pCi/g
	CH48-006	2084268 290	751088 041	Uranium-238	3 508	1 410	2 000	0 0	0 5	351	1600	pCi/g
	CH48-006	2084268 290	751088 041	Vanadium	88 400	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-006	2084268 290	751088 041	Zinc	274 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-007	2084232 380	751083 745	Anthracene	83 000	69 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH48-007	2084232 380	751083 745	Barium	617 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-007	2084232 380	751083 745	Benzo(a)anthracene	260 000	42 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-007	2084232 380	751083 745	Benzo(a)pyrene	310 000	54 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-007	2084232 380	751083 745	Benzo(b)fluoranthene	210 000	67 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH48-007	2084232 380	751083 745	Benzo(k)fluoranthene	240 000	72 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH48-007	2084232 380	751083 745	Chromium	36 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-007	2084232 380	751083 745	Chrysene	330 000	36 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-007	2084232 380	751083 745	Copper	99 100	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-007	2084232 380	751083 745	Dibenz(a,h)anthracene	85 000	66 000	NA	0 0	0 5	3490	NA	ug/kg
	CH48-007	2084232 380	751083 745	Fluoranthene	530 000	42 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-007	2084232 380	751083 745	Indeno(1,2,3-cd)pyrene	180 000	47 000	NA	0 0	0 5	34900	NA	ug/kg
	CH48-007	2084232 380	751083 745	Iron	34000 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-007	2084232 380	751083 745	Manganese	561 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH48-007	2084232 380	751083 745	Nickel	37 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-007	2084232 380	751083 745	Pyrene	490 000	60 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH48-007	2084232 380	751083 745	Strontium	170 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-007	*2084232 380*	*751083 745*	*Uranium-234*	*3 919*	*1 710*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-007	2084232 380	751083 745	Uranium-235	0 219	0 142	0 094	0 0	0 5	8	1900	pCi/g
	CH48-007	2084232 380	751083 745	Uranium-238	3 919	1 710	2 000	0 0	0 5	351	1600	pCi/g
	CH48-007	2084232 380	751083 745	Vanadium	126 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-007	2084232 380	751083 745	Zinc	148 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-008	2084282 640	751120 857	Arsenic	14 800	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH48-008	2084282 640	751120 857	Barium	599 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-008	2084282 640	751120 857	Benzo(a)anthracene	63 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-008	2084282 640	751120 857	Benzo(a)pyrene	59 000	57 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-008	2084282 640	751120 857	Chromium	48 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-008	2084282 640	751120 857	Chrysene	73 000	38 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-008	2084282 640	751120 857	Copper	99 700	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-008	2084282 640	751120 857	Fluoranthene	170 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-008	2084282 640	751120 857	Iron	30700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-008	2084282 640	751120 857	Manganese	438 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH48-008	2084282 640	751120 857	Nickel	43 300	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-008	2084282 640	751120 857	Pyrene	130 000	63 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH48-008	2084282 640	751120 857	Strontium	138 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-008	*2084282 640*	*751120 857*	*Uranium-234*	*2 869*	*1 400*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-008	2084282 640	751120 857	Uranium-235	0 231	0 134	0 094	0 0	0 5	8	1900	pCi/g
	CH48-008	2084282 640	751120 857	Uranium-238	2 869	1 400	2 000	0 0	0 5	351	1600	pCi/g
	CH48-008	2084282 640	751120 857	Vanadium	123 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-008	2084282 640	751120 857	Zinc	104 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-009	2084246 910	751117 138	2-Methylnaphthalene	290 000	36 000	NA	0 0	0 5	20400000	NA	ug/kg
	CH48-009	2084246 910	751117 138	Barium	790 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-009	2084246 910	751117 138	Benzo(a)anthracene	79 000	40 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-009	2084246 910	751117 138	Chromium	27 100	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-009	2084246 910	751117 138	Copper	98 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-009	2084246 910	751117 138	Iron	28100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-009	2084246 910	751117 138	Naphthalene	60 000	43 000	NA	0 0	0 5	3090000	NA	ug/kg
	CH48-009	2084246 910	751117 138	Nickel	36 300	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-009	2084246 910	751117 138	Strontium	301 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-009	*2084246 910*	*751117 138*	*Uranium-234*	*2 453*	*1 430*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-009	2084246 910	751117 138	Uranium-235	0 172	0 121	0 094	0 0	0 5	8	1900	pCi/g
	CH48-009	2084246 910	751117 138	Uranium-238	2 453	1 430	2 000	0 0	0 5	351	1600	pCi/g
	CH48-009	2084246 910	751117 138	Vanadium	67 500	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-009	2084246 910	751117 138	Zinc	94 100	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-010	2084212 010	751112 810	Barium	760 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-010	2084212 010	751112 810	Copper	70 700	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-010	2084212 010	751112 810	Strontium	231 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-010	*2084212 010*	*751112 810*	*Uranium-234*	*2 773*	*1 510*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-010	2084212 010	751112 810	Uranium-235	0 234	0 121	0 094	0 0	0 5	8	1900	pCi/g
	CH48-010	2084212 010	751112 810	Uranium-238	2 773	1 510	2 000	0 0	0 5	351	1600	pCi/g
	CH48-010	2084212 010	751112 810	Vanadium	155 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-011	2084297 270	751154 026	Acenaphthene	79 000	51 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH48-011	2084297 270	751154 026	Americium-241	0 437	0 324	0 023	0 0	0 5	76	1900	pCi/g
	CH48-011	2084297 270	751154 026	Anthracene	86 000	74 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH48-011	2084297 270	751154 026	Aroclor-1254	80 000	4 900	NA	0 0	0 5	12400	371000	ug/kg
	CH48-011	2084297 270	751154 026	Arsenic	11 100	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH48-011	2084297 270	751154 026	Barium	616 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-011	2084297 270	751154 026	Benzo(a)anthracene	230 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-011	2084297 270	751154 026	Benzo(a)pyrene	250 000	58 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-011	2084297 270	751154 026	Benzo(b)fluoranthene	200 000	72 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH48-011	2084297 270	751154 026	Benzo(k)fluoranthene	230 000	77 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH48-011	2084297 270	751154 026	Chromium	37 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-011	2084297 270	751154 026	Chrysene	270 000	39 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-011	2084297 270	751154 026	Copper	88 400	4 000	18 060	0 0	0 5	40900	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-011	2084297 270	751154 026	Fluoranthene	600 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-011	2084297 270	751154 026	Indeno(1,2,3-cd)pyrene	140 000	50 000	NA	0 0	0 5	34900	NA	ug/kg
	CH48-011	2084297 270	751154 026	Iron	34300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-011	2084297 270	751154 026	Manganese	540 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH48-011	2084297 270	751154 026	Nickel	45 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-011	*2084297 270*	*751154 026*	*Plutonium-239/240*	*6 774*	*0 324*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CH48-011	2084297 270	751154 026	Pyrene	540 000	64 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH48-011	2084297 270	751154 026	Selenium	1 540	1 000	1 224	0 0	0 5	5110	NA	mg/kg
	CH48-011	2084297 270	751154 026	Strontium	136 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-011	2084297 270	751154 026	Uranium-235	0 164	0 085	0 094	0 0	0 5	8	1900	pCi/g
	CH48-011	2084297 270	751154 026	Vanadium	137 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-011	2084297 270	751154 026	Zinc	109 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-012	2084261 430	751149 902	Aroclor-1254	18 000	4 600	NA	0 0	0 5	12400	371000	ug/kg
	CH48-012	2084261 430	751149 902	Arsenic	12 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH48-012	2084261 430	751149 902	Barium	659 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-012	2084261 430	751149 902	Benzo(a)anthracene	120 000	43 000	NA	0 0	0 5	34900	800000	ug/kg
	CH48-012	2084261 430	751149 902	Benzo(a)pyrene	140 000	56 000	NA	0 0	0 5	3490	25700	ug/kg
	CH48-012	2084261 430	751149 902	Benzo(b)fluoranthene	100 000	69 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH48-012	2084261 430	751149 902	Benzo(k)fluoranthene	130 000	74 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH48-012	2084261 430	751149 902	Chromium	34 100	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH48-012	2084261 430	751149 902	Chrysene	130 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH48-012	2084261 430	751149 902	Copper	45 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-012	2084261 430	751149 902	Fluoranthene	280 000	43 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH48-012	2084261 430	751149 902	Indeno(1,2,3-cd)pyrene	83 000	48 000	NA	0 0	0 5	34900	NA	ug/kg
	CH48-012	2084261 430	751149 902	Iron	26500 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-012	2084261 430	751149 902	Manganese	372 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH48-012	2084261 430	751149 902	Nickel	35 000	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH48-012	2084261 430	751149 902	Pyrene	210 000	61 000	NA	0 0	0 5	22100000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-012	2084261 430	751149 902	Strontium	181 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-012	*2084261 430*	*751149 902*	*Uranium-234*	*3 267*	*1 520*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-012	2084261 430	751149 902	Uranium-235	0 164	0 128	0 094	0 0	0 5	8	1900	pCi/g
	CH48-012	2084261 430	751149 902	Uranium-238	3 267	1 520	2 000	0 0	0 5	351	1600	pCi/g
	CH48-012	2084261 430	751149 902	Vanadium	104 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-012	2084261 430	751149 902	Zinc	102 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH48-013	2084225 810	751146 003	Barium	659 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-013	2084225 810	751146 003	Copper	86 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-013	*2084225 810*	*751146 003*	*Uranium-234*	*4 264*	*1 510*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-013	2084225 810	751146 003	Uranium-235	0 199	0 112	0 094	0 0	0 5	8	1900	pCi/g
	CH48-013	2084225 810	751146 003	Uranium-238	4 264	1 510	2 000	0 0	0 5	351	1600	pCi/g
	CH48-013	2084225 810	751146 003	Vanadium	129 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH48-014	2084190 140	751141 918	Aroclor-1254	13 000	4 600	NA	0 0	0 5	12400	371000	ug/kg
	CH48-014	2084190 140	751141 918	Barium	899 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-014	2084190 140	751141 918	Copper	95 600	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-014	2084190 140	751141 918	Strontium	290 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH48-014	*2084190 140*	*751141 918*	*Uranium-234*	*4 696*	*1 680*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-014	2084190 140	751141 918	Uranium-235	0 309	0 129	0 094	0 0	0 5	8	1900	pCi/g
	CH48-014	2084190 140	751141 918	Uranium-238	4 696	1 680	2 000	0 0	0 5	351	1600	pCi/g
	CH48-015	2084154 330	751137 920	Arsenic	13 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH48-015	2084154 330	751137 920	Barium	776 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH48-015	2084154 330	751137 920	Copper	141 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH48-015	2084154 330	751137 920	Iron	72600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH48-015	2084154 330	751137 920	Manganese	1580 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH48-015	*2084154 330*	*751137 920*	*Uranium-234*	*3 071*	*1 540*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH48-015	2084154 330	751137 920	Uranium-235	0 235	0 128	0 094	0 0	0 5	8	1900	pCi/g
	CH48-015	2084154 330	751137 920	Uranium-238	3 071	1 540	2 000	0 0	0 5	351	1600	pCi/g
	CH48-015	2084154 330	751137 920	Vanadium	196 000	31 000	45 590	0 0	0 5	7150	433	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-015	2084154 330	751137 920	Zinc	284 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH49-000	2084311 760	751186 774	2-Methylnaphthalene	110 000	41 000	NA	0 0	0 5	20400000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Acenaphthene	510 000	52 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Americium-241	0 902	0 436	0 023	0 0	0 5	76	1900	pCi/g
	CH49-000	2084311 760	751186 774	Anthracene	560 000	75 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Aroclor-1254	46 000	5 000	NA	0 0	0 5	12400	371000	ug/kg
	CH49-000	2084311 760	751186 774	Barium	608 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH49-000	2084311 760	751186 774	Benzo(a)anthracene	1100 000	45 000	NA	0 0	0 5	34900	800000	ug/kg
	CH49-000	2084311 760	751186 774	Benzo(a)pyrene	1100 000	59 000	NA	0 0	0 5	3490	25700	ug/kg
	CH49-000	2084311 760	751186 774	Benzo(b)fluoranthene	910 000	73 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH49-000	2084311 760	751186 774	Benzo(k)fluoranthene	1000 000	79 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH49-000	2084311 760	751186 774	Chromium	37 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH49-000	2084311 760	751186 774	Chrysene	1300 000	39 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Copper	137 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH49-000	2084311 760	751186 774	Dibenz(a,h)anthracene	200 000	72 000	NA	0 0	0 5	3490	NA	ug/kg
	CH49-000	2084311 760	751186 774	Dibenzofuran	210 000	58 000	NA	0 0	0 5	2950000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Fluoranthene	3700 000	45 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Fluorene	360 000	62 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Indeno(1,2,3-cd)pyrene	620 000	51 000	NA	0 0	0 5	34900	NA	ug/kg
	CH49-000	2084311 760	751186 774	Iron	23800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH49-000	2084311 760	751186 774	Naphthalene	320 000	49 000	NA	0 0	0 5	3090000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Nickel	32 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH49-000	*2084311 760*	*751186 774*	*Plutonium-239/240*	*10 526*	*0 436*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CH49-000	2084311 760	751186 774	Pyrene	2800 000	65 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH49-000	2084311 760	751186 774	Strontium	156 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH49-000	*2084311 760*	*751186 774*	*Uranium-234*	*4 329*	*1 440*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH49-000	2084311 760	751186 774	Uranium-235	0 241	0 117	0 094	0 0	0 5	8	1900	pCi/g
	CH49-000	2084311 760	751186 774	Uranium-238	4 329	1 440	2 000	0 0	0 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH49-000	2084311 760	751186 774	Vanadium	112 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH49-000	2084311 760	751186 774	Zinc	132 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH49-001	2084275 820	751182 874	Acenaphthene	210 000	51 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Americium-241	1 061	0 544	0 023	0 0	0 5	76	1900	pCi/g
	CH49-001	2084275 820	751182 874	Anthracene	240 000	73 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Aroclor-1254	79 000	4 900	NA	0 0	0 5	12400	371000	ug/kg
	CH49-001	2084275 820	751182 874	Arsenic	12 400	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH49-001	2084275 820	751182 874	Barium	710 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH49-001	2084275 820	751182 874	Benzo(a)anthracene	580 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CH49-001	2084275 820	751182 874	Benzo(a)pyrene	620 000	58 000	NA	0 0	0 5	3490	25700	ug/kg
	CH49-001	2084275 820	751182 874	Benzo(b)fluoranthene	480 000	71 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH49-001	2084275 820	751182 874	Benzo(k)fluoranthene	640 000	77 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH49-001	2084275 820	751182 874	bis(2-Ethylhexyl)phthalate	110 000	79 000	NA	0 0	0 5	1970000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Chromium	49 000	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH49-001	2084275 820	751182 874	Chrysene	650 000	38 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Copper	148 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH49-001	2084275 820	751182 874	Dibenz(a,h)anthracene	120 000	70 000	NA	0 0	0 5	3490	NA	ug/kg
	CH49-001	2084275 820	751182 874	Dibenzofuran	67 000	56 000	NA	0 0	0 5	2950000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Fluoranthene	1800 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Fluorene	150 000	61 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Indeno(1,2,3-cd)pyrene	370 000	50 000	NA	0 0	0 5	34900	NA	ug/kg
	CH49-001	2084275 820	751182 874	Iron	31300 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH49-001	2084275 820	751182 874	Manganese	600 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH49-001	2084275 820	751182 874	Naphthalene	70 000	47 000	NA	0 0	0 5	3090000	NA	ug/kg
	CH49-001	2084275 820	751182 874	Nickel	41 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH49-001	*2084275 820*	*751182 874*	*Plutonium-239/240*	*11 813*	*0 544*	*0 066*	*0 0*	*0 5*	*50/116*	*3800*	*pCi/g*
	CH49-001	2084275 820	751182 874	Pyrene	1200 000	63 000	NA	0 0	0 5	22100000	NA	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH49-001	2084275 820	751182 874	Strontium	174 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH49-001	*2084275 820*	*751182 874*	*Uranium-234*	*3 120*	*1 690*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH49-001	2084275 820	751182 874	Uranium-235	0 189	0 133	0 094	0 0	0 5	8	1900	pCi/g
	CH49-001	2084275 820	751182 874	Uranium-238	3 120	1 690	2 000	0 0	0 5	351	1600	pCi/g
	CH49-001	2084275 820	751182 874	Vanadium	97 100	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH49-001	2084275 820	751182 874	Zinc	282 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH49-002	2084255 123	751190 066	Acenaphthene	90 000	51 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Americium-241	0 453	0 226	0 023	0 0	0 5	76	1900	pCi/g
	CH49-002	2084255 123	751190 066	Anthracene	110 000	73 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Aroclor-1254	65 000	4 900	NA	0 0	0 5	12400	371000	ug/kg
	CH49-002	2084255 123	751190 066	Aroclor-1260	74 000	5 500	NA	0 0	0 5	12400	NA	ug/kg
	CH49-002	2084255 123	751190 066	Arsenic	13 000	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH49-002	2084255 123	751190 066	Barium	610 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH49-002	2084255 123	751190 066	Benzo(a)anthracene	370 000	44 000	NA	0 0	0 5	34900	800000	ug/kg
	CH49-002	2084255 123	751190 066	Benzo(a)pyrene	380 000	58 000	NA	0 0	0 5	3490	25700	ug/kg
	CH49-002	2084255 123	751190 066	Benzo(b)fluoranthene	350 000	71 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH49-002	2084255 123	751190 066	Benzo(k)fluoranthene	330 000	77 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH49-002	2084255 123	751190 066	Chromium	56 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH49-002	2084255 123	751190 066	Chrysene	430 000	38 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Copper	101 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH49-002	2084255 123	751190 066	Dibenz(a,h)anthracene	110 000	70 000	NA	0 0	0 5	3490	NA	ug/kg
	CH49-002	2084255 123	751190 066	Fluoranthene	880 000	44 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Fluorene	63 000	61 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Indeno(1,2,3-cd)pyrene	230 000	50 000	NA	0 0	0 5	34900	NA	ug/kg
	CH49-002	2084255 123	751190 066	Iron	30600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH49-002	2084255 123	751190 066	Manganese	405 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH49-002	2084255 123	751190 066	Nickel	38 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH49-002	*2084255 123*	*751190 066*	*Plutonium-239/240*	*0 260*	*0 074*	*0 066*	*0 0*	*0 5*	*50*	*3800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH49-002	2084255 123	751190 066	Pyrene	830 000	63 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH49-002	2084255 123	751190 066	Strontium	148 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH49-002	2084255 123	751190 066	Vanadium	143 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH49-002	2084255 123	751190 066	Zinc	180 000	0 610	73 760	0 0	0 5	307000	NA	mg/kg
	CH49-003	2084206 550	751164 908	Arsenic	11 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH49-003	2084206 550	751164 908	Barium	618 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH49-003	2084206 550	751164 908	Chromium	40 600	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CH49-003	2084206 550	751164 908	Copper	76 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH49-003	2084206 550	751164 908	Iron	28400 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH49-003	2084206 550	751164 908	Nickel	37 300	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH49-003	2084206 550	751164 908	Strontium	128 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH49-003	*2084206 550*	*751164 908*	*Uranium-234*	*2 736*	*1 610*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH49-003	2084206 550	751164 908	Uranium-235	0 258	0 145	0 094	0 0	0 5	8	1900	pCi/g
	CH49-003	2084206 550	751164 908	Uranium-238	2 736	1 610	2 000	0 0	0 5	351	1600	pCi/g
	CH49-003	2084206 550	751164 908	Vanadium	135 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH49-003	2084206 550	751164 908	Zinc	97 300	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CH49-004	2084218 870	751207 841	Acenaphthene	100 000	50 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Americium-241	0 882	0 503	0 023	0 0	0 5	76	1900	pCi/g
	CH49-004	2084218 870	751207 841	Anthracene	150 000	72 000	NA	0 0	0 5	204000000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Aroclor-1254	86 000	4 800	NA	0 0	0 5	12400	371000	ug/kg
	CH49-004	2084218 870	751207 841	Aroclor-1260	29 000	5 300	NA	0 0	0 5	12400	NA	ug/kg
	CH49-004	2084218 870	751207 841	Arsenic	10 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CH49-004	2084218 870	751207 841	Barium	731 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CH49-004	2084218 870	751207 841	Benzo(a)anthracene	440 000	43 000	NA	0 0	0 5	34900	800000	ug/kg
	CH49-004	2084218 870	751207 841	Benzo(a)pyrene	460 000	56 000	NA	0 0	0 5	3490	25700	ug/kg
	CH49-004	2084218 870	751207 841	Benzo(b)fluoranthene	390 000	69 000	NA	0 0	0 5	34900	1010000	ug/kg
	CH49-004	2084218 870	751207 841	Benzo(k)fluoranthene	440 000	75 000	NA	0 0	0 5	349000	1010000	ug/kg
	CH49-004	2084218 870	751207 841	Chromium	44 200	20 000	16 990	0 0	0 5	268	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH49-004	2084218 870	751207 841	Chrysene	490 000	37 000	NA	0 0	0 5	3490000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Copper	82 700	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CH49-004	2084218 870	751207 841	Dibenz(a,h)anthracene	90 000	68 000	NA	0 0	0 5	3490	NA	ug/kg
	CH49-004	2084218 870	751207 841	Fluoranthene	1300 000	43 000	NA	0 0	0 5	27200000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Fluorene	79 000	60 000	NA	0 0	0 5	40800000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Indeno(1,2,3-cd)pyrene	290 000	49 000	NA	0 0	0 5	34900	NA	ug/kg
	CH49-004	2084218 870	751207 841	Iron	28600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CH49-004	2084218 870	751207 841	Manganese	411 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CH49-004	2084218 870	751207 841	Nickel	35 800	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CH49-004	*2084218 870*	*751207 841*	*Plutonium-239/240*	*10 366*	*0 503*	*0 066*	*0 0*	*0 5*	*50*	*3800*	*pCi/g*
	CH49-004	2084218 870	751207 841	Pyrene	830 000	62 000	NA	0 0	0 5	22100000	NA	ug/kg
	CH49-004	2084218 870	751207 841	Strontium	169 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CH49-004	*2084218 870*	*751207 841*	*Uranium-234*	*3 438*	*1 720*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CH49-004	2084218 870	751207 841	Uranium-235	0 265	0 135	0 094	0 0	0 5	8	1900	pCi/g
	CH49-004	2084218 870	751207 841	Uranium-238	3 438	1 720	2 000	0 0	0 5	351	1600	pCi/g
	CH49-004	2084218 870	751207 841	Vanadium	131 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CH49-004	2084218 870	751207 841	Zinc	168 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
700-150 1 - Radioactive Site North of Building 771												
	CE48-008	2083690 363	751144 198	Barium	787 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-008	2083690 363	751144 198	Chromium	48 800	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-008	2083690 363	751144 198	Copper	142 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-008	2083690 363	751144 198	Iron	26800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-008	2083690 363	751144 198	Nickel	35 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-008	2083690 363	751144 198	Strontium	152 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-008	2083690 363	751144 198	Uranium-235	0 312	0 167	0 094	0 0	0 5	8	1900	pCi/g
	CE48-008	2083690 363	751144 198	Vanadium	199 000	31 000	45 590	0 0	0 5	7150	433	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-008	2083690 363	751144 198	Zinc	130 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE48-020	2083638 880	751148 925	Arsenic	16 500	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CE48-020	2083638 880	751148 925	Barium	666 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-020	2083638 880	751148 925	Chromium	33 300	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-020	2083638 880	751148 925	Copper	67 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-020	2083638 880	751148 925	Iron	35600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-020	2083638 880	751148 925	Manganese	366 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE48-020	2083638 880	751148 925	Nickel	50 000	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-020	2083638 880	751148 925	Strontium	209 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-020	*2083638 880*	*751148 925*	*Uranium-234*	*4 778*	*2 880*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-020	2083638 880	751148 925	Uranium-238	4 778	2 880	2 000	0 0	0 5	351	1600	pCi/g
	CE48-020	2083638 880	751148 925	Vanadium	91 900	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE48-021	2083674 709	751144 933	Barium	844 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE48-021	2083674 709	751144 933	Chromium	20 100	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE48-021	2083674 709	751144 933	Copper	65 600	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE48-021	2083674 709	751144 933	Iron	24600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE48-021	2083674 709	751144 933	Nickel	27 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE48-021	2083674 709	751144 933	Strontium	295 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE48-021	*2083674 709*	*751144 933*	*Uranium-234*	*4 365*	*1 840*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-021	2083674 709	751144 933	Uranium-235	0 251	0 129	0 094	0 0	0 5	8	1900	pCi/g
	CE48-021	2083674 709	751144 933	Uranium-238	4 365	1 840	2 000	0 0	0 5	351	1600	pCi/g
	CE49-001	2083624 420	751181 970	Barium	917 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE49-001	2083624 420	751181 970	Chromium	34 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE49-001	2083624 420	751181 970	Copper	100 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-001	2083624 420	751181 970	Iron	30700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-001	2083624 420	751181 970	Manganese	600 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-001	2083624 420	751181 970	Nickel	34 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-001	2083624 420	751181 970	Strontium	303 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-001	*2083624 420*	*751181 970*	*Uranium-234*	*2 251*	*1 260*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-001	2083624 420	751181 970	Uranium-238	2 251	1 260	2 000	0 0	0 5	351	1600	pCi/g
	CE49-001	2083624 420	751181 970	Vanadium	57 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-001	2083624 420	751181 970	Zinc	80 900	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE49-002	2083650 888	751168 089	Barium	709 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE49-002	2083650 888	751168 089	Chromium	44 000	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE49-002	2083650 888	751168 089	Copper	63 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-002	2083650 888	751168 089	Iron	36900 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-002	2083650 888	751168 089	Manganese	572 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-002	2083650 888	751168 089	Nickel	35 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-002	2083650 888	751168 089	Strontium	244 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE49-002	*2083650 888*	*751168 089*	*Uranium-234*	*3 746*	*1 750*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-002	2083650 888	751168 089	Uranium-235	0 230	0 178	0 094	0 0	0 5	8	1900	pCi/g
	CE49-002	2083650 888	751168 089	Uranium-238	3 746	1 750	2 000	0 0	0 5	351	1600	pCi/g
	CE49-002	2083650 888	751168 089	Vanadium	96 500	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-002	2083650 888	751168 089	Zinc	98 300	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE49-003	2083646 300	751210 967	Barium	835 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE49-003	2083646 300	751210 967	Chromium	44 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE49-003	2083646 300	751210 967	Copper	95 100	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-003	2083646 300	751210 967	Iron	30500 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-003	2083646 300	751210 967	Manganese	689 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-003	2083646 300	751210 967	Nickel	41 600	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-003	2083646 300	751210 967	Strontium	239 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE49-003	*2083646 300*	*751210 967*	*Uranium-234*	*5 052*	*1 890*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-003	2083646 300	751210 967	Uranium-238	5 052	1 890	2 000	0 0	0 5	351	1600	pCi/g
	CE49-003	2083646 300	751210 967	Vanadium	63 200	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-003	2083646 300	751210 967	Zinc	379 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE49-004	2083696 240	751173 715	Barium	605 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-004	2083696 240	751173 715	Copper	149 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-004	*2083696 240*	*751173 715*	*Uranium-234*	*6 175*	*1 430*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-004	2083696 240	751173 715	Uranium-235	0 338	0 124	0 094	0 0	0 5	8	1900	pCi/g
	CE49-004	2083696 240	751173 715	Uranium-238	6 175	1 430	2 000	0 0	0 5	351	1600	pCi/g
	CE49-004	2083696 240	751173 715	Vanadium	214 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-005	2083682 020	751206 724	Barium	709 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE49-005	2083682 020	751206 724	Chromium	42 300	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE49-005	2083682 020	751206 724	Copper	88 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-005	2083682 020	751206 724	Iron	31200 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-005	2083682 020	751206 724	Manganese	589 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-005	2083682 020	751206 724	Nickel	39 900	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-005	2083682 020	751206 724	Strontium	276 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE49-005	*2083682 020*	*751206 724*	*Uranium-234*	*3 923*	*1 530*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-005	2083682 020	751206 724	Uranium-235	0 328	0 152	0 094	0 0	0 5	8	1900	pCi/g
	CE49-005	2083682 020	751206 724	Uranium-238	3 923	1 530	2 000	0 0	0 5	351	1600	pCi/g
	CE49-005	2083682 020	751206 724	Vanadium	95 600	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-005	2083682 020	751206 724	Zinc	412 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE49-006	2083732 180	751169 396	Barium	974 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CE49-006	2083732 180	751169 396	Copper	81 800	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-006	2083732 180	751169 396	Iron	32100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-006	2083732 180	751169 396	Manganese	666 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-006	2083732 180	751169 396	Nickel	37 600	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-006	2083732 180	751169 396	Strontium	361 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE49-006	*2083732 180*	*751169 396*	*Uranium-234*	*4 564*	*1 910*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-006	2083732 180	751169 396	Uranium-235	0 247	0 197	0 094	0 0	0 5	8	1900	pCi/g
	CE49-006	2083732 180	751169 396	Uranium-238	4 564	1 910	2 000	0 0	0 5	351	1600	pCi/g
	CE49-006	2083732 180	751169 396	Zinc	87 400	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CE49-007	2083720 658	751210 142	Barium	613 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE49-007	2083720 658	751210 142	Chromium	54 200	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CE49-007	2083720 658	751210 142	Copper	240 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CE49-007	2083720 658	751210 142	Iron	25800 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CE49-007	**2083720.658**	**751210 142**	**Lead**	**63 900**	**7 000**	**54.620**	**0.0**	**0 5**	**1000**	**25.6**	**mg/kg**
	CE49-007	2083720 658	751210 142	Manganese	407 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CE49-007	2083720 658	751210 142	Nickel	35 000	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CE49-007	2083720 658	751210 142	Strontium	215 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CE49-007	*2083720 658*	*751210 142*	*Uranium-234*	*3 201*	*1 440*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE49-007	2083720 658	751210 142	Uranium-238	3 201	1 440	2 000	0 0	0 5	351	1600	pCi/g
	CE49-007	2083720 658	751210 142	Vanadium	102 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CE49-007	2083720 658	751210 142	Zinc	431 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF48-014	2083803 550	751161 121	Barium	772 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-014	2083803 550	751161 121	Copper	43 900	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-014	2083803 550	751161 121	Nickel	37 500	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-014	2083803 550	751161 121	Strontium	328 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-014	2083803 550	751161 121	Tin	4 540	4 000	NA	0 0	0 5	613000	NA	mg/kg
	CF48-014	*2083803 550*	*751161 121*	*Uranium-234*	*3 670*	*1 810*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF48-014	2083803 550	751161 121	Uranium-238	3 670	1 810	2 000	0 0	0 5	351	1600	pCi/g
	CF48-014	2083803 550	751161 121	Vanadium	104 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF48-015	2083840 368	751160 778	Arsenic	21 000	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF48-015	2083840 368	751160 778	Barium	678 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF48-015	2083840 368	751160 778	Chromium	30 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF48-015	2083840 368	751160 778	Copper	169 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF48-015	2083840 368	751160 778	Iron	42200 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF48-015	2083840 368	751160 778	Manganese	659 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF48-015	2083840 368	751160 778	Nickel	57 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF48-015	2083840 368	751160 778	Strontium	241 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF48-015	*2083840 368*	*751160 778*	*Uranium-234*	*3 533*	*1 600*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF48-015	2083840 368	751160 778	Uranium-238	3 533	1 600	2 000	0 0	0 5	351	1600	pCi/g
	CF48-015	2083840 368	751160 778	Vanadium	130 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF48-015	2083840 368	751160 778	Zinc	106 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-000	**2083767 890**	**751164 972**	**Arsenic**	**22 800**	**5.000**	**10.090**	**0 0**	**0.5**	**22.2**	**21.6**	**mg/kg**
	CF49-000	2083767 890	751164 972	Barium	682 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-000	2083767 890	751164 972	Copper	79 500	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-000	*2083767 890*	*751164 972*	*Uranium-234*	*4 626*	*1 720*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-000	2083767 890	751164 972	Uranium-235	0 248	0 139	0 094	0 0	0 5	8	1900	pCi/g
	CF49-000	2083767 890	751164 972	Uranium-238	4 626	1 720	2 000	0 0	0 5	351	1600	pCi/g
	CF49-000	2083767 890	751164 972	Vanadium	121 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-001	2083753 470	751198 358	Arsenic	11 700	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-001	2083753 470	751198 358	Barium	825 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-001	2083753 470	751198 358	Chromium	34 200	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-001	2083753 470	751198 358	Copper	115 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-001	2083753 470	751198 358	Iron	32600 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-001	2083753 470	751198 358	Manganese	623 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-001	2083753 470	751198 358	Nickel	38 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-001	2083753 470	751198 358	Strontium	271 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-001	2083753 470	751198 358	Uranium-235	0 128	0 099	0 094	0 0	0 5	8	1900	pCi/g
	CF49-001	2083753 470	751198 358	Vanadium	97 700	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-001	2083753 470	751198 358	Zinc	111 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-002	2083789 140	751194 007	Barium	796 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-002	2083789 140	751194 007	Chromium	28 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-002	2083789 140	751194 007	Copper	94 400	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-002	2083789 140	751194 007	Iron	29400 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-002	2083789 140	751194 007	Manganese	420 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-002	2083789 140	751194 007	Nickel	36 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-002	2083789 140	751194 007	Strontium	294 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-002	*2083789 140*	*751194 007*	*Uranium-234*	*4 051*	*1 610*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-002	2083789 140	751194 007	Uranium-235	0 213	0 161	0 094	0 0	0 5	8	1900	pCi/g
	CF49-002	2083789 140	751194 007	Uranium-238	4 051	1 610	2 000	0 0	0 5	351	1600	pCi/g
	CF49-002	2083789 140	751194 007	Vanadium	70 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-002	2083789 140	751194 007	Zinc	84 300	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-003	2083825 105	751189 756	Arsenic	13 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-003	2083825 105	751189 756	Barium	845 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-003	2083825 105	751189 756	Chromium	51 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-003	2083825 105	751189 756	Copper	116 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-003	2083825 105	751189 756	Iron	36200 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-003	2083825 105	751189 756	Manganese	656 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-003	2083825 105	751189 756	Nickel	42 900	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-003	2083825 105	751189 756	Strontium	258 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-003	*2083825 105*	*751189 756*	*Uranium-234*	*3 742*	*1 970*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-003	2083825 105	751189 756	Uranium-235	0 226	0 138	0 094	0 0	0 5	8	1900	pCi/g
	CF49-003	2083825 105	751189 756	Uranium-238	3 742	1 970	2 000	0 0	0 5	351	1600	pCi/g
	CF49-003	2083825 105	751189 756	Vanadium	94 500	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-003	2083825 105	751189 756	Zinc	156 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-004	2083860 692	751185 588	Arsenic	14 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-004	2083860 692	751185 588	Barium	791 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-004	2083860 692	751185 588	Chromium	41 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-004	2083860 692	751185 588	Copper	185 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-004	2083860 692	751185 588	Iron	35000 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-004	2083860 692	751185 588	Manganese	760 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-004	2083860 692	751185 588	Nickel	48 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-004	2083860 692	751185 588	Strontium	273 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-004	*2083860 692*	*751185 588*	*Uranium-234*	*4 554*	*2 020*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-004	2083860 692	751185 588	Uranium-238	4 554	2 020	2 000	0 0	0 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-004	2083860 692	751185 588	Vanadium	109 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-004	2083860 692	751185 588	Zinc	159 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-005	**2083896 613**	**751181 495**	**Arsenic**	**30.000**	**5.000**	**10 090**	**0 0**	**0 5**	**22 2**	**21.6**	**mg/kg**
	CF49-005	2083896 613	751181 495	Barium	553 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-005	2083896 613	751181 495	Chromium	25 600	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-005	2083896 613	751181 495	Copper	57 600	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-005	2083896 613	751181 495	Nickel	15 500	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-005	2083896 613	751181 495	Strontium	374 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-005	*2083896 613*	*751181 495*	*Uranium-234*	*2 723*	*1 280*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-005	2083896 613	751181 495	Uranium-235	0 122	0 085	0 094	0 0	0 5	8	1900	pCi/g
	CF49-005	2083896 613	751181 495	Uranium-238	2 723	1 280	2 000	0 0	0 5	351	1600	pCi/g
	CF49-005	2083896 613	751181 495	Vanadium	67 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-006	2083875 213	751218 148	Barium	750 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-006	2083875 213	751218 148	Chromium	55 200	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-006	2083875 213	751218 148	Copper	105 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-006	2083875 213	751218 148	Iron	33700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-006	2083875 213	751218 148	Manganese	468 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-006	2083875 213	751218 148	Nickel	38 600	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-006	2083875 213	751218 148	Strontium	267 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-006	*2083875 213*	*751218 148*	*Uranium-234*	*4 142*	*1 740*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-006	2083875 213	751218 148	Uranium-238	4 142	1 740	2 000	0 0	0 5	351	1600	pCi/g
	CF49-006	2083875 213	751218 148	Vanadium	120 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-006	2083875 213	751218 148	Zinc	124 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-007	2083932 293	751177 223	Arsenic	11 800	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-007	2083932 293	751177 223	Barium	635 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-007	2083932 293	751177 223	Chromium	46 700	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-007	2083932 293	751177 223	Copper	161 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-007	2083932 293	751177 223	Iron	36100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-007	2083932 293	751177 223	Manganese	402 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-007	2083932 293	751177 223	Nickel	47 300	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-007	2083932 293	751177 223	Strontium	214 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-007	*2083932 293*	*751177 223*	*Uranium-234*	*2 105*	*1 730*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-007	2083932 293	751177 223	Uranium-235	0 415	0 230	0 094	0 0	0 5	8	1900	pCi/g
	CF49-007	2083932 293	751177 223	Uranium-238	2 105	1 730	2 000	0 0	0 5	351	1600	pCi/g
	CF49-007	2083932 293	751177 223	Vanadium	152 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-007	2083932 293	751177 223	Zinc	146 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-008	2083918 682	751210 291	Arsenic	10 200	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-008	2083918 682	751210 291	Barium	876 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-008	2083918 682	751210 291	Chromium	32 900	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-008	2083918 682	751210 291	Copper	135 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-008	2083918 682	751210 291	Iron	33100 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-008	2083918 682	751210 291	Manganese	1060 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-008	2083918 682	751210 291	Nickel	39 700	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF49-008	2083918 682	751210 291	Strontium	336 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-008	*2083918 682*	*751210 291*	*Uranium-234*	*3 660*	*1 530*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-008	2083918 682	751210 291	Uranium-235	0 292	0 157	0 094	0 0	0 5	8	1900	pCi/g
	CF49-008	2083918 682	751210 291	Uranium-238	3 660	1 530	2 000	0 0	0 5	351	1600	pCi/g
	CF49-008	2083918 682	751210 291	Vanadium	53 300	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-008	2083918 682	751210 291	Zinc	119 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-009	2083903 515	751243 420	Arsenic	16 200	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF49-009	2083903 515	751243 420	Barium	793 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF49-009	2083903 515	751243 420	Chromium	27 000	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF49-009	2083903 515	751243 420	Copper	85 300	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF49-009	2083903 515	751243 420	Iron	32400 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF49-009	2083903 515	751243 420	Manganese	657 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF49-009	2083903 515	751243 420	Nickel	44 900	12 000	14 910	0 0	0 5	20400	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-009	2083903 515	751243 420	Strontium	222 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF49-009	*2083903 515*	*751243 420*	*Uranium-234*	*3 938*	*1 740*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-009	2083903 515	751243 420	Uranium-235	0 275	0 172	0 094	0 0	0 5	8	1900	pCi/g
	CF49-009	2083903 515	751243 420	Uranium-238	3 938	1 740	2 000	0 0	0 5	351	1600	pCi/g
	CF49-009	2083903 515	751243 420	Vanadium	112 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF49-009	2083903 515	751243 420	Zinc	150 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF49-018	2083812 455	751225 894	Uranium, Total	7 502	7 465	5 98	0	0 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225 894	Uranium-234	2 526	2 513	2 253	0	0 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-238	2 526	2 513	2	0	0 5	351	1600	pCi/g
	CF49-018	2083812 455	751225 894	Uranium, Total	14 402	6 604	3 04	0 5	2 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225.894	Uranium-234	4 849	2 224	2 64	0 5	2 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-235	0 266	0 191	0 12	0 5	2 5	8	1900	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-238	4 849	2 224	1 49	0 5	2 5	351	1600	pCi/g
	CF49-018	2083812 455	751225 894	Uranium, Total	15 174	6 108	3 04	2 5	4 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225 894	Uranium-234	5 109	2 056	2 64	2 5	4 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-235	0 270	0 148	0 12	2 5	4 5	8	1900	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-238	5 109	2 056	1 49	2 5	4 5	351	1600	pCi/g
	CF49-018	2083812 455	751225 894	Uranium, Total	10 125	6 776	3 04	4 5	6 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225 894	Uranium-234	3 409	2 282	2 64	4 5	6 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-235	0 176	0 157	0 12	4 5	6 5	8	1900	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-238	3 409	2 282	1 49	4 5	6 5	351	1600	pCi/g
	CF49-018	2083812 455	751225 894	Uranium, Total	16 142	6 322	3 04	6 5	8 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225 894	Uranium-234	5 435	2 129	2 64	6 5	8 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-235	0 295	0 161	0 12	6 5	8 5	8	1900	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-238	5 435	2 129	1 49	6 5	8 5	351	1600	pCi/g
	CF49-018	2083812 455	751225 894	Uranium, Total	12 652	5 353	3 04	8 5	10 5	2750	67 8	mg/kg
	CF49-018	2083812 455	751225 894	Uranium-234	4 260	1 802	2 64	8 5	10 5	300	1800	pCi/g
	CF49-018	2083812 455	751225 894	Uranium-235	0 249	0 178	0 12	8 5	10 5	8	1900	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-018	2083812 455	751225 894	Uranium-238	4 260	1 802	1 49	8 5	10 5	351	1600	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	12 842	6 461	5 98	0	0 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	4 324	2 175	2 253	0	0 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 202	0 179	0 0939	0	0 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-238	4 324	2 175	2	0	0 5	351	1600	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	11 206	4 526	3 04	0 5	2 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	3 773	1 524	2 64	0 5	2 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 208	0 128	0 12	0 5	2 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-238	3 773	1 524	1 49	0 5	2 5	351	1600	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	12 254	5 697	3 04	2 5	4 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	4 126	1 918	2 64	2 5	4 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 181	0 134	0 12	2 5	4 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	11 812	5 773	3 04	4 5	6 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	3 977	1 944	2 64	4 5	6 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 183	0 151	0 12	4 5	6 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-238	3 977	1 944	1 49	4 5	6 5	351	1600	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	9 240	5 336	3 04	6 5	8 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	3 111	1 796	2 64	6 5	8 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 193	0 154	0 12	6 5	8 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-238	3 111	1 796	1 49	6 5	8 5	351	1600	pCi/g
	CF49-019	2083817 069	751245 315	Uranium, Total	11 636	3 844	3 04	8 5	10 5	2750	67 8	mg/kg
	CF49-019	2083817 069	751245 315	Uranium-234	3 918	1 294	2 64	8 5	10 5	300	1800	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-235	0 186	0 121	0 12	8 5	10 5	8	1900	pCi/g
	CF49-019	2083817 069	751245 315	Uranium-238	3 918	1 294	1 49	8 5	10 5	351	1600	pCi/g
	CF49-020	2083819 070	751266 518	Uranium, Total	11 034	6 365	5 98	0 0	0 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	3 715	2 143	2 253	0 0	0 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-235	0 260	0 153	0 0939	0 0	0 5	8	1900	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	3 715	2 143	2	0 0	0 5	351	1600	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-020	2083819 070	751266 518	Uranium, Total	10 244	4 709	3 04	0 5	2 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	3 449	1 585	2 64	0 5	2 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-235	0 280	0 166	0 12	0 5	2 5	8	1900	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	3 449	1 585	1 49	0 5	2 5	351	1600	pCi/g
	CF49-020	2083819 070	751266 518	Uranium, Total	9 748	6 448	3 04	2 5	4 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	3 282	2 171	2 64	2 5	4 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-235	0 211	0 172	0 12	2 5	4 5	8	1900	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	3 282	2 171	1 49	2 5	4 5	351	1600	pCi/g
	CF49-020	2083819 070	751266 518	Uranium, Total	16 065	5 220	3 04	4 5	6 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	5 409	1 758	2 64	4 5	6 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-235	0 347	0 178	0 12	4 5	6 5	8	1900	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	5 409	1 758	1 49	4 5	6 5	351	1600	pCi/g
	CF49-020	2083819 070	751266 518	Uranium, Total	12 029	5 843	3 04	6 5	8 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	4 050	1 967	2 64	6 5	8 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	4 050	1 967	1 49	6 5	8 5	351	1600	pCi/g
	CF49-020	2083819 070	751266 518	Uranium, Total	9 459	5 893	3 04	8 5	10 5	2750	67 8	mg/kg
	CF49-020	2083819 070	751266 518	Uranium-234	3 185	1 984	2 64	8 5	10 5	300	1800	pCi/g
	CF49-020	2083819 070	751266 518	Uranium-238	3 185	1 984	1 49	8 5	10 5	351	1600	pCi/g
	CG49-000	2083967 920	751173 028	Barium	537 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CG49-000	2083967 920	751173 028	Copper	108 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CG49-000	*2083967 920*	*751173 028*	*Uranium-234*	*4 010*	*1 480*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG49-000	2083967 920	751173 028	Uranium-235	0 262	0 136	0 094	0 0	0 5	8	1900	pCi/g
	CG49-000	2083967 920	751173 028	Uranium-238	4 010	1 480	2 000	0 0	0 5	351	1600	pCi/g
	CG49-000	2083967 920	751173 028	Vanadium	177 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CG49-001	2083953 892	751206 161	Arsenic	10 200	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG49-001	2083953 892	751206 161	Barium	544 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CG49-001	2083953 892	751206 161	Chromium	58 500	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CG49-001	2083953 892	751206 161	Copper	131 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG49-001	2083953 892	751206 161	Iron	29000 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CG49-001	2083953 892	751206 161	Nickel	39 100	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CG49-001	2083953 892	751206 161	Strontium	141 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CG49-001	*2083953 892*	*751206 161*	*Uranium-234*	*5 308*	*1 740*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG49-001	2083953 892	751206 161	Uranium-235	0 192	0 122	0 094	0 0	0 5	8	1900	pCi/g
	CG49-001	2083953 892	751206 161	Uranium-238	5 308	1 740	2 000	0 0	0 5	351	1600	pCi/g
	CG49-001	2083953 892	751206 161	Vanadium	196 000	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CG49-001	2083953 892	751206 161	Zinc	148 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CG49-006	2084026 455	751216 166	Uranium, Total	10 54	4 25	3 04	4 5	6 5	2750	67 8	mg/kg
	CG49-006	2084026 455	751216 166	Uranium, Total	14 99	6 04	3 04	4 5	6 5	2750	67 8	mg/kg
	CG49-006	2084026 455	751216 166	Uranium-234	5 05	1 45	2 64	4 5	6 5	300	1800	pCi/g
	CG49-006	2084026 455	751216 166	Uranium-235	0 22	0 115	0 12	4 5	6 5	8	1900	pCi/g
	CG49-006	2084026 455	751216 166	Uranium-238	5 05	1 43	1 49	4 5	6 5	351	1600	pCi/g
	CG49-007	2084098 136	751197 333	Americium-241	0 20	0 17	0 0227	0	0 5	76	1900	pCi/g
	CG49-007	2084098 136	751197 333	Uranium, Total	7 07	5 52	5 98	0	0 5	2750	67 8	mg/kg
	CG49-007	2084098 136	751197 333	Uranium, Total	8 23	6 43	5 98	0	0 5	2750	67 8	mg/kg
	CG49-007	2084098 136	751197 333	Uranium-234	2 77	2 17	2 253	0	0 5	300	1800	pCi/g
	CG49-007	2084098 136	751197 333	Uranium-235	0 19	0 14	0 0939	0	0 5	8	1900	pCi/g
	CG49-007	2084098 136	751197 333	Uranium-238	2 77	2 17	2	0	0 5	351	1600	pCi/g
700-163 2 - Radioactive Site 700 Area 3 Americium (Am) Slab	*CF49-012*	*2083831 387*	*751305 176*	*Uranium-234*	*4 343*	*1 520*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-012	2083831 387	751305 176	Uranium-235	0 229	0 125	0 094	0 0	0 5	8	1900	pCi/g
	CF49-012	2083831 387	751305 176	Uranium-238	4 343	1 520	2 000	0 0	0 5	351	1600	pCi/g
	CF49-012	*2083831 387*	*751305 176*	*Uranium-234*	*4 237*	*1 590*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF49-012	2083831 387	751305 176	Uranium-238	4 237	1 590	1 49	0 5	2 5	351	1600	pCi/g
	CF49-012	2083831 387	751305 176	Uranium-235	0 196	0 108	0 12	2 5	4 5	8	1900	pCi/g
	CF49-012	*2083831 387*	*751305 176*	*Plutonium-239/240*	*0 043*	*0 018*	*0 02*	*6 5*	*8 5*	*50/116*	*3800*	*pCi/g*
	CF49-013	2083853 434	751304 939	Uranium-235	0 106	0 103	0 094	0 0	0 5	8	1900	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF49-013	*2083853 434*	*751304 939*	*Uranium-234*	*4 815*	*1 560*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF49-013	2083853 434	751304 939	Uranium-238	4 815	1 560	1 49	0 5	2 5	351	1600	pCi/g
	CF49-013	2083853 434	751304 939	Uranium-235	0 249	0 118	0 12	2 5	4 5	8	1900	pCi/g
	CF49-014	*2083853 422*	*751286 076*	*Uranium-234*	*3 041*	*1 400*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-014	2083853 422	751286 076	Uranium-235	0 185	0 126	0 094	0 0	0 5	8	1900	pCi/g
	CF49-014	2083853 422	751286 076	Uranium-238	3 041	1 400	2 000	0 0	0 5	351	1600	pCi/g
	CF49-014	*2083853 422*	*751286 076*	*Uranium-234*	*3 316*	*1 540*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF49-014	2083853 422	751286 076	Uranium-235	0 208	0 116	0 12	0 5	2 5	8	1900	pCi/g
	CF49-014	2083853 422	751286 076	Uranium-238	3 316	1 540	1 49	0 5	2 5	351	1600	pCi/g
	CF49-015	*2083831 756*	*751285 175*	*Uranium-234*	*2 113*	*1 470*	*2 253*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-015	2083831 756	751285 175	Uranium-238	2 113	1 470	2 000	0 0	0 5	351	1600	pCi/g
	CF49-015	2083831 756	751285 175	Uranium-235	0 346	0 107	0 12	0 5	2 5	8	1900	pCi/g
	CF49-015	*2083831 756*	*751285 175*	*Uranium-234*	*4 078*	*1 650*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF49-015	2083831 756	751285 175	Uranium-238	4 078	1 650	1 49	0 5	2 5	351	1600	pCi/g
	CF49-015	2083831 756	751285 175	Uranium-235	0 129	0 055	0 12	4 5	6 5	8	1900	pCi/g
	CF49-016	*2083842 564*	*751295 677*	*Uranium-234*	*4 056*	*1 680*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF49-016	2083842 564	751295 677	Uranium-235	0 226	0 144	0 094	0 0	0 5	8	1900	pCi/g
	CF49-016	2083842 564	751295 677	Uranium-238	4 056	1 680	2 000	0 0	0 5	351	1600	pCi/g
	CF49-016	*2083842 564*	*751295 677*	*Uranium-234*	*5 394*	*1 490*	*2 6*	*2 5*	*4 5*	*300*	*1800*	*pCi/g*
	CF49-016	2083842 564	751295 677	Uranium-235	0 271	0 139	0 12	2 5	4 5	8	1900	pCi/g
	CF49-016	2083842 564	751295 677	Uranium-238	5 394	1 490	1 49	2 5	4 5	351	1600	pCi/g
700-139 1(N)(b) - Hydroxide Tank, KOH, NaOH Condensate	CG48-015	2084126 519	751119 415	Aluminum	25000 000	2 900	16902 000	0 0	0 5	228000	NA	mg/kg
	CG48-015	2084126 519	751119 415	Arsenic	13 900	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CG48-015	2084126 519	751119 415	Barium	549 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CG48-015	2084126 519	751119 415	Beryllium	1 000	0 046	0 966	0 0	0 5	921	2 15	mg/kg
	CG48-015	2084126 519	751119 415	Chromium	39 600	0 098	16 990	0 0	0 5	268	NA	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-015	2084126 519	751119 415	Copper	189 000	0 260	18 060	0 0	0 5	40900	NA	mg/kg
	CG48-015	2084126 519	751119 415	Iron	32500 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CG48-015	2084126 519	751119 415	Lithium	14 000	0 150	11 550	0 0	0 5	20400	NA	mg/kg
	CG48-015	2084126 519	751119 415	Nickel	44 900	0 250	14 910	0 0	0 5	20400	NA	mg/kg
	CG48-015	2084126 519	751119 415	Strontium	162 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CG48-015	*2084126 519*	*751119 415*	*Uranium-234*	*4 700*	*1 800*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CG48-015	2084126 519	751119 415	Uranium-238	4 700	1 800	2 000	0 0	0 5	351	1600	pCi/g
	CG48-015	2084126 519	751119 415	Vanadium	164 000	0 190	45 590	0 0	0 5	7150	433	mg/kg
	CG48-015	2084126 519	751119 415	Zinc	162 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CG48-015	2084126 519	751119 415	Arsenic	15 300	5 000	13 14	0 5	2 5	22 2	21 6	mg/kg
	CG48-015	2084126 519	751119 415	Barium	699 000	98 000	289 38	0 5	2 5	26400	NA	mg/kg
	CG48-015	2084126 519	751119 415	Copper	129 000	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CG48-015	2084126 519	751119 415	Uranium-238	4 819	1 460	1 49	0 5	2 5	351	1600	pCi/g
	CG48-015	2084126 519	751119 415	Vanadium	168 000	31 000	88 49	0 5	2 5	7150	433	mg/kg
	CG48-015	2084126 519	751119 415	Zinc	181 000	9 000	139 1	0 5	2 5	307000	NA	mg/kg
IHSS 139 2 – Caustic/Acid Spills Hydrofluoric Tank	CF47-006	2083896 080	750802 462	Arsenic	17 300	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-006	2083896 080	750802 462	Barium	805 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-006	2083896 080	750802 462	Chromium	45 400	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF47-006	2083896 080	750802 462	Copper	118 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-006	2083896 080	750802 462	Iron	35900 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF47-006	2083896 080	750802 462	Manganese	591 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF47-006	2083896 080	750802 462	Nickel	63 900	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF47-006	2083896 080	750802 462	Strontium	189 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF47-006	*2083896 080*	*750802 462*	*Uranium-234*	*4 927*	*1 630*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF47-006	2083896 080	750802 462	Uranium-235	0 223	0 132	0 094	0 0	0 5	8	1900	pCi/g

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CF47-006	2083896 080	750802 462	Uranium-238	4 927	1 630	2 000	0 0	0 5	351	1600	pCi/g
	CF47-006	2083896 080	750802 462	Vanadium	92 400	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF47-006	2083896 080	750802 462	Zinc	175 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
	CF47-007	2083914 330	750788 070	Arsenic	10 400	5 000	10 090	0 0	0 5	22 2	21 6	mg/kg
	CF47-007	2083914 330	750788 070	Barium	777 000	98 000	141 260	0 0	0 5	26400	NA	mg/kg
	CF47-007	2083914 330	750788 070	Chromium	31 000	20 000	16 990	0 0	0 5	268	NA	mg/kg
	CF47-007	2083914 330	750788 070	Copper	116 000	4 000	18 060	0 0	0 5	40900	NA	mg/kg
	CF47-007	2083914 330	750788 070	Iron	29700 000	2190 000	18037 000	0 0	0 5	307000	NA	mg/kg
	CF47-007	2083914 330	750788 070	Manganese	537 000	158 000	365 080	0 0	0 5	3480	NA	mg/kg
	CF47-007	2083914 330	750788 070	Nickel	34 200	12 000	14 910	0 0	0 5	20400	NA	mg/kg
	CF47-007	2083914 330	750788 070	Strontium	240 000	20 000	48 940	0 0	0 5	613000	NA	mg/kg
	CF47-007	*2083914 330*	*750788 070*	*Uranium-234*	*4 140*	*1 690*	*2 3*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CF47-007	2083914 330	750788 070	Uranium-235	0 302	0 140	0 094	0 0	0 5	8	1900	pCi/g
	CF47-007	2083914 330	750788 070	Uranium-238	4 140	1 690	2 000	0 0	0 5	351	1600	pCi/g
	CF47-007	2083914 330	750788 070	Vanadium	88 500	31 000	45 590	0 0	0 5	7150	433	mg/kg
	CF47-007	2083914 330	750788 070	Zinc	165 000	9 000	73 760	0 0	0 5	307000	NA	mg/kg
700-150 3 – Radioactive Site Between Buildings 771 and 774	CG48-016	2083956 548	751017 273	Nitrate	2 500	0 250	NA	0 5	2 5	1000000	NA	mg/kg
	CF48-017	2083924 677	751018 377	Barium	536 000	98 000	289 38	0 5	2 5	26400	NA	mg/kg
	CF48-017	2083924 677	751018 377	Copper	80 800	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CF48-017	*2083924 677*	*751018 377*	*Uranium-234*	*4 788*	*1 770*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*
	CF48-017	2083924 677	751018 377	Uranium-235	0 146	0 106	0 12	0 5	2 5	8	1900	pCi/g
	CF48-017	2083924 677	751018 377	Uranium-238	4 788	1 770	1 49	0 5	2 5	351	1600	pCi/g
	CF48-017	2083924 677	751018 377	Vanadium	157 000	31 000	88 49	0 5	2 5	7150	433	mg/kg
	CG48-017	2084026 765	751016 607	Barium	548 000	98 000	289 38	0 5	2 5	26400	NA	mg/kg
	CG48-017	2084026 765	751016 607	Copper	91 300	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CG48-017	2084026 765	751016 607	Napthalene	110 000	5 900	NA	0 5	2 5	3090000	NA	ug/kg
	CG48-017	*2084026 765*	*751016 607*	*Uranium-234*	*3 123*	*2 170*	*2 6*	*0 5*	*2 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CG48-017	2084026 765	751016 607	Uranium-235	0 247	0 117	0 12	0 5	2 5	8	1900	pCi/g
	CG48-017	2084026 765	751016 607	Uranium-238	3 123	2 170	1 49	0 5	2 5	351	1600	pCi/g
	CG48-017	2084026 765	751016 607	Vanadium	140 000	31 000	88 49	0 5	2 5	7150	433	mg/kg
	CG48-018	2084064 950	751049 910	Arsenic	16 400	5 000	13 14	0 5	2 5	22 2	21 6	mg/kg
	CG48-018	2084064 950	751049 910	Barium	536 000	98 000	289 38	0 5	2 5	26400	NA	mg/kg
	CG48-018	2084064 950	751049 910	Copper	130 000	4 000	38 21	0 5	2 5	40900	NA	mg/kg
	CG48-018	**2084064 950**	**751049.910**	**Lead**	**27 200**	**7 000**	**24.97**	**0 5**	**2.5**	**1000**	**25.6**	**mg/kg**
	CG48-018	2084064 950	751049 910	Uranium-235	0 177	0 136	0 12	0 5	2 5	8	1900	pCi/g
	CG48-018	2084064 950	751049 91	Vanadium	128 000	31 000	88 49	0 5	2 5	7150	433	mg/kg
Maintenance Shop Drain (Inside Maintenance Shop)												
	CE48-027	751065 23	2083566 34	Americium-241	3 289	0 60	0 0227	0 0	0 5	76	1900	pCi/g
	CE48-027	751065 23	2083566 34	Anthracene	110	70	-	0 0	0 5	204000000	-	ug/kg
	CE48-027	751065 23	2083566 34	Barium	727	98	141 26	0 0	0 5	26400	-	mg/kg
	CE48-027	751065 23	2083566 34	Benzo(a)anthracene	430	42	-	0 0	0 5	34900	800000	ug/kg
	CE48-027	751065 23	2083566 34	Benzo(a)pyrene	530	55	-	0 0	0 5	3490	25700	ug/kg
	CE48-027	751065 23	2083566 34	Benzo(b)fluoranthene	820	67	-	0 0	0 5	34900	1010000	ug/kg
	CE48-027	751065 23	2083566 34	Benzo(k)fluoranthene	410	73	-	0 0	0 5	349000	1010000	ug/kg
	CE48-027	751065 23	2083566 34	bis(2-Ethylhexyl)phthalate	830	75	-	0 0	0 5	1970000	-	ug/kg
	CE48-027	751065 23	2083566 34	Chromium	43 2	20	16 99	0 0	0 5	268	-	mg/kg
	CE48-027	751065 23	2083566 34	Chrysene	530	36	-	0 0	0 5	3490000	-	ug/kg
	CE48-027	751065 23	2083566 34	Copper	41 9	4	18 06	0 0	0 5	40900	-	mg/kg
	CE48-027	751065 23	2083566 34	Dibenz(a,h)anthracene	200	66	-	0 0	0 5	3490	-	ug/kg
	CE48-027	751065 23	2083566 34	Fluoranthene	590	42	-	0 0	0 5	27200000	-	ug/kg
	CE48-027	751065 23	2083566 34	Indeno(1,2,3-cd)pyrene	680	47	-	0 0	0 5	34900	-	ug/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-027	751065 23	2083566 34	Iron	30700	2190	18037	0 0	0 5	307000	-	mg/kg
	CE48-027	751065 23	2083566 34	Manganese	392	158	365 08	0 0	0 5	3480	-	mg/kg
	CE48-027	751065 23	2083566 34	Nickel	45	12	14 91	0 0	0 5	20400	-	mg/kg
	CE48-027	*751065 23*	*2083566 34*	*Plutonium-239/240*	*18 75*	*0 60*	*0 066*	*0 0*	*0 5*	*50*	*3800*	*pCi/g*
	CE48-027	751065 23	2083566 34	Pyrene	610	60	-	0 0	0 5	22100000	-	ug/kg
	CE48-027	751065 23	2083566 34	Strontium	155	20	48 94	0 0	0 5	613000	-	mg/kg
	CE48-027	751065 23	2083566 34	Toluene	4 8	5 66	-	0 0	0 5	31300000	128000	ug/kg
	CE48-027	*751065 23*	*2083566 34*	*Uranium, Total*	*11 666*	*5 55*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CE48-027	*751065 23*	*2083566 34*	*Uranium-234*	*3 928*	*1 87*	*2 25*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-027	751065 23	2083566 34	Uranium-235	0 225	0 18	0 09	0 0	0 5	8	1900	pCi/g
	CE48-027	751065 23	2083566 34	Uranium-238	3 928	1 87	2	0 0	0 5	351	1600	pCi/g
	CE48-027	751065 23	2083566 34	Vanadium	183	31	45 59	0 0	0 5	7150	433	mg/kg
	CE48-027	751065 23	2083566 34	Zinc	117	9	73 76	0 0	0 5	307000	-	mg/kg
Maintenance Shop Drain (Outside Maintenance Shop)	CE48-028	751064 32	2083538 06	Acenaphthene	150	52	-	0 0	0 5	40800000	-	ug/kg
	CE48-028	751064 32	2083538 06	Anthracene	220	75	-	0 0	0 5	204000000	-	ug/kg
	CE48-028	751064 32	2083538 06	Arsenic	10 6	5	10 09	0 0	0 5	22 2	21 6	mg/kg
	CE48-028	751064 32	2083538 06	Barium	584	98	141 25	0 0	0 5	26400	-	mg/kg
	CE48-028	751064 32	2083538 06	Benzene	1	5 37	-	0 0	0 5	205000	-	ug/kg
	CE48-028	751064 32	2083538 06	Benzo(a)anthracene	470	45	-	0 0	0 5	34900	800000	ug/kg
	CE48-028	751064 32	2083538 06	Benzo(a)pyrene	490	59	-	0 0	0 5	3490	25700	ug/kg
	CE48-028	751064 32	2083538 06	Benzo(b)fluoranthene	490	73	-	0 0	0 5	34900	1010000	ug/kg
	CE48-028	751064 32	2083538 06	Benzo(k)fluoranthene	280	79	-	0 0	0 5	349000	1010000	ug/kg
	CE48-028	751064 32	2083538 06	bis(2-Ethylhexyl)phthalate	280	81	-	0 0	0 5	1970000	-	ug/kg
	CE48-028	751064 32	2083538 06	Chromium	55 2	20	16 99	0 0	0 5	268	-	mg/kg

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CE48-028	751064 32	2083538 06	Chrysene	470	39	-	0 0	0 5	3490000	-	ug/kg
	CE48-028	751064 32	2083538 06	Copper	55 6	4	18 06	0 0	0 5	40900	-	mg/kg
	CE48-028	751064 32	2083538 06	Dibenz(a,h)anthracene	120	72	-	0 0	0 5	3490	-	ug/kg
	CE48-028	751064 32	2083538 06	Fluoranthene	950	45	-	0 0	0 5	27200000	-	ug/kg
	CE48-028	751064 32	2083538 06	Fluorene	110	63	-	0 0	0 5	40800000	-	ug/kg
	CE48-028	751064 32	2083538 06	Indeno(1,2,3-cd)pyrene	380	51	-	0 0	0 5	34900	-	ug/kg
	CE48-028	751064 32	2083538 06	Iron	39900	2190	18037	0 0	0 5	307000	-	mg/kg
	CE48-028	751064 32	2083538 06	Lead	202	7	54 62	0 0	0 5	1000	25 6	mg/kg
	CE48-028	751064 32	2083538 06	Manganese	527	158	365 08	0 0	0 5	3480	-	mg/kg
	CE48-028	751064 32	2083538 06	Naphthalene	56	49	-	0 0	0 5	3090000	-	ug/kg
	CE48-028	751064 32	2083538 06	Nickel	52	12	14 91	0 0	0 5	20400	-	mg/kg
	CE48-028	751064 32	2083538 06	Pyrene	940	65	-	0 0	0 5	22100000	-	ug/kg
	CE48-028	751064 32	2083538 06	Strontium	148	20	48 94	0 0	0 5	613000	-	mg/kg
	CE48-028	751064 32	2083538 06	Toluene	2 7	5 37	-	0 0	0 5	31300000	128000	ug/kg
	CE48-028	*751064 32*	*2083538 06*	*Uranium, Total*	*10 3059*	*5 29*	*5 98*	*0 0*	*0 5*	*2750*	*67 8*	*mg/kg*
	CE48-028	*751064 32*	*2083538 06*	*Uranium-234*	*3 47*	*1 78*	*2 25*	*0 0*	*0 5*	*300*	*1800*	*pCi/g*
	CE48-028	751064 32	2083538 06	Uranium-235	0 2399	0 15	0 093	0 0	0 5	8	1900	pCi/g
	CE48-028	751064 32	2083538 06	Uranium-238	3 47	1 78	2	0 0	0 5	351	1600	pCi/g
	CE48-028	751064 32	2083538 06	Vanadium	161	31	45 59	0 0	0 5	7150	433	mg/kg
	CE48-028	751064 32	2083538 06	Zinc	209	9	73 76	0 0	0 5	307000	-	mg/kg
IHSS 149 1 (Solar Evaporation Ponds)	CH48-020	2084187 540	751051 722	Arsenic	18 000	5 000	13 14	4 5	6 5	22 2	21 6	mg/kg
	CH48-020	2084187 540	751051 722	Barium	554 000	98 000	289 38	4 5	6 5	26400	NA	mg/kg
	CH48-020	2084187 540	751051 722	Chromium	38 900	20 000	NA	4 5	6 5	268	NA	mg/kg
	CH48-020	2084187 540	751051 722	Copper	74 100	4 000	38 21	4 5	6 5	40900	NA	mg/kg
	CH48-020	2084187 540	751051 722	Lead	25 100	7 000	24 97	4 5	6 5	1000	25 6	mg/kg
	CH48-020	*2084187 540*	*751051 722*	*Uranium-234*	*3 174*	*1 470*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*

Table 3
IHSS Group 700-4 Characterization Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits

IHSS/PAC/ UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-020	2084187 540	751051 722	Uranium-235	0 227	0 121	0 12	4 5	6 5	8	1900	pCi/g
	CH48-020	2084187 540	751051 722	Uranium-238	3 174	1 470	1 49	4 5	6 5	351	1600	pCi/g
	CH48-020	2084187 540	751051 722	Vanadium	161 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
	CH48-021	2084253 990	751015 760	Arsenic	14 100	5 000	13 14	4 5	6 5	22 2	21 6	mg/kg
	CH48-021	2084253 990	751015 760	Copper	98 900	4 000	38.21	4 5	6 5	40900	NA	mg/kg
	CH48-021	*2084253 990*	*751015 760*	*Uranium-234*	*2 188*	*1 530*	*2 6*	*4 5*	*6 5*	*300*	*1800*	*pCi/g*
	CH48-021	2084253 990	751015 760	Uranium-235	0 251	0 106	0 12	4 5	6 5	8	1900	pCi/g
	CH48-021	2084253 990	751015 760	Uranium-238	2 188	1 530	1 49	4 5	6 5	351	1600	pCi/g
	CH48-021	2084253 990	751015 760	Vanadium	173 000	31 000	88 49	4 5	6 5	7150	433	mg/kg
	CH48-021	2084253 990	751015 760	Zinc	582 000	9 000	139 1	4 5	6 5	307000	NA	mg/kg

Table 4
IHSS Group 700-4 Characterization Results Greater Than ALs

Location	Analyte	Result	Depth (feet)
CH48-004	Arsenic	24 8 mg/kg (WRW exceedance)	4 5 – 6 5
CG48-011	Arsenic	20 2 mg/kf (ecological receptor exceedance	0 0 – 0 5
CF49-000	Arsenic	22 8 mg/kg (WRW exceedance	0 0 – 0 5
CF49-005	Arsenic	30 mg/kg (WRW exceedance)	0 0– 0 5
CG48-008	Americium-241	1,220 pCi/g (WRW exceedance)	0 0 – 0 5 beneath building basement
CG48-009	Americium-241	116 40 pCi/g (WRW exceedance)	0 0 – 0 5 beneath building basement
CE47-012	Benzo(a)pyrene	23,000 ug/mg (WRW exceedance)	0 0 – 0 5
CE47-012	Dibenz(a,h)anthracene	5,500 ug/mg (WRW exceedance)	0 0 – 0 5
CE48-012	Benzo(a)pyrene	16,000 ug/mg (WRW exceedance)	0 0 – 0 5
CE48-028	Lead	202 mg/kg (ecological receptor exceedance)	0 0 – 0 5
CE49-008	Lead	26 0 mg/kg (ecological receptor exceedance)	0 0 – 0 5 Beneath building basement
CE49-009	Lead	33 9 mg/kg (ecological receptor exceedance)	0 0 – 0 5 Beneath building basement
CF48-008	Lead	47 7 mg/kg (ecological receptor exceedance)	0 0 - 0 5 Beneath building basement
CF48-021	Lead	31 7 mg/kg (ecological receptor exceedance)	0 8 – 1 0 Beneath building basement
CF48-021	Lead	35 6 mg/kg (ecological receptor exceedance)	0 8 – 1 3 Beneath building basement
CF48-024	Lead	32 7 mg/kg (ecological receptor exceedance)	1 0 – 1 5 Beneath building basement
CG48-018	Lead	27 2 mg/kg (ecological receptor exceedance)	0 0 – 0 5
CE48-011	Lead	108 mg/kg (ecological receptor exceedance)	0 0 – 0 5
CE48-019	Lead	60 mg/kg (ecological receptor exceedance)	0 0 – 0 5
CE49-007	Lead	63 9 mg/kg (ecological receptor exceedance)	0 0 – 0 5
CG48-008	Plutonium-239/240	1,690 pCi/g (WRW exceedance)	0 0 – 0 5 beneath building basement
CG48-009	Plutonium-239/240	943 75 pCi/g (WRW exceedance)	0 0 – 0 5 beneath building basement
CE47-003	Plutonium-239/240	56 6 pCi/g (WRW exceedance)	0 0 – 0 5 beneath building basement

Table 5
RFCA SORs for IHSS Group 700-4 Characterization Sampling Locations

LOCATION	SURFACE SOIL SOR	SUBSURFACE SOIL SOR
CD48-000	0 015	NA
CD48-001	0 053	NA
CE46-001	NA	0 040
CE47-000	NA	0 014
CE47-001	NA	0 093
CE47-002	NA	0 055
CE47-003	NA	0 589
CE47-004	NA	0 045
CE47-009	NA	0 062
CE47-011	0 059	NA
CE47-012	0 042	NA
CE47-013	0 057	NA
CE47-014	0 051	NA
CE47-015	0 041	NA
CE47-016	0 065	NA
CE47-017	0 015	NA
CE47-018	0 047	NA
CE47-019	0 015	NA
CE47-022	NA	0 103
CE47-023	NA	0 003
CE48-000	NA	0 044
CE48-001	0 049	NA
CE48-003	NA	0 014
CE48-006	NA	0 061
CE48-007	NA	0 017
CE48-008	0 039	NA
CE48-009	0 037	NA
CE48-010	0 050	NA
CE48-011	0 040	NA
CE48-012	0 063	NA
CE48-013	0 047	NA
CE48-014	0 035	NA
CE48-015	0 018	NA
CE48-016	0 045	NA
CE48-017	0 059	NA
CE48-018	0 034	NA
CE48-019	0 033	NA
CE48-020	0 027	NA
CE48-021	0 056	NA
CE48-023	0 046	NA
CE48-024	NA	0 035
CE48-025	NA	0 033
CE49-000	NA	0 077
CE49-001	0 013	NA
CE49-002	0 050	NA
CE49-003	0 029	NA
CE49-004	0 077	NA

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Table 5
RFCA SORs for IHSS Group 700-4 Characterization Sampling Locations

LOCATION	SURFACE SOIL SOR	SUBSURFACE SOIL SOR
CE49-005	0 063	NA
CE49-006	0 057	NA
CE49-007	0 018	NA
CE49-008	0 035	NA
CE49-009	0 031	NA
CE49-012	NA	0 040
CF47-000	NA	0 033
CF47-001	NA	0 028
CF47-002	NA	0 020
CF47-003	NA	0 024
CF47-004	NA	0 069
CF47-005	NA	0 069
CF47-006	0 056	NA
CF47-007	0 061	NA
CF48-000	NA	0 032
CF48-003	NA	0 020
CF48-005	NA	0 111
CF48-006	NA	0 115
CF48-007	NA	0 052
CF48-008	NA	0 024
CF48-012	NA	0 030
CF48-013	0 039	NA
CF48-014	0 021	NA
CF48-015	0 020	NA
CF48-017	NA	0 048
CF48-018	NA	0 049
CF48-024	NA	0 030
CF49-000	0 057	NA
CF49-001	0 016	NA
CF49-002	0 050	NA
CF49-003	0 050	NA
CF49-004	0 026	NA
CF49-005	0 031	NA
CF49-006	0 024	NA
CF49-007	0 064	NA
CF49-008	0 057	NA
CF49-009	0 057	NA
CF49-012	0 053	NA
CF49-013	0 013	NA
CF49-014	0 040	NA
CF49-015	0 012	NA
CF49-016	0 051	0 278
CF49-017	NA	0 001
CG47-002	NA	0 052
CG47-003	NA	0 054
CG48-000	NA	0 052
CG48-001	NA	0 029
CG48-004	NA	0 017

Table 5
RFCA SORs for IHSS Group 700-4 Characterization Sampling Locations

LOCATION	SURFACE SOIL SOR	SUBSURFACE SOIL SOR
CG48-005	NA	NA
CG48-007	NA	0 169
CG48-008	NA	30 631
CG48-009	NA	9 728
CG48-010	NA	0 202
CG48-011	NA	0 021
CG48-012	NA	0 013
CG48-013	NA	0 033
CG48-015	NA	0 027
CG48-017	NA	NA
CG48-018	NA	NA
CG48-020	NA	0 048
CG48-023	NA	0 328
CG49-000	0 056	NA
CG49-001	0 054	NA
CG49-006	0 057	NA
CG49-007	0 003	NA
CH48-003	NA	0 063
CH48-004	NA	0 014
CH48-005	0 070	NA
CH48-006	0 191	NA
CH48-007	0 050	NA
CH48-008	0 045	NA
CH48-009	0 035	NA
CH48-010	0 045	NA
CH48-011	0 085	NA
CH48-012	0 039	NA
CH48-013	0 049	NA
CH48-014	0 065	NA
CH48-015	0 047	NA
CH48-017	NA	0 011
CH48-018	NA	0 031
CH48-019	NA	0 054
CH48-020	NA	0 048
CH48-021	NA	0 045
CH49-000	0 157	NA
CH49-001	0 157	NA
CH49-002	0 008	NA
CH49-003	0 048	NA
CH49-004	0 154	NA

NA – No data available or radionuclides less than background

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Table 6
Tanks 14 and 16 Characterization Soil Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
CERCLA Tank 16 (Tanks 66 and 67)	CH48-025	2084144 337	751030 039	1,2-Dichloropropane	12	5 87	NA	0	0 5	345000	NA	ug/kg
	CH48-025	2084144 337	751030 039	4-Methyl-2-pentanone	688	58 7	NA	0	0 5	16400000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Acetone	120	117	NA	0	0 5	102000000	211000	ug/kg
	CH48-025	**2084144 337**	**751030 039**	**Americium-241**	**727 9**	**2 939**	**0 023**	**0**	**0 5**	**76**	**1900**	**pCi/g**
	CH48-025	2084144 337	751030 039	Naphthalene	220	5 87	NA	0	0 5	3090000	NA	ug/kg
	CH48-025	**2084144.337**	**751030 039**	**Plutonium-239/240**	**5884 67**	**2 939**	**0 066**	**0**	**0.5**	**50**	**3800**	**pCi/g**
	CH48-025	2084144 337	751030 039	Tetrachloroethene	9 1	5 87	NA	0	0 5	615000	37500	ug/kg
	CH48-025	2084144 337	751030 039	1,2-Dichloropropane	9 61	6 06	NA	2	3	345000	NA	ug/kg
	CH48-025	2084144 337	751030 039	2-Methylnaphthalene	200	38	NA	2	3	20400000	NA	ug/kg
	CH48-025	2084144 337	751030 039	4-Methyl-2-pentanone	303	60 6	NA	2	3	16400000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Acenaphthene	310	37	NA	2	3	40800000	NA	ug/kg
	CH48-025	**2084144.337**	**751030.039**	**Americium-241**	**6115**	**11.34**	**0 020**	**2**	**3**	**76**	**1900**	**pCi/g**
	CH48-025	2084144 337	751030 039	Anthracene	290	28	NA	2	3	204000000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Benzo(a)anthracene	340	30	NA	2	3	34900	800000	ug/kg
	CH48-025	2084144 337	751030 039	Benzo(a)pyrene	300	48	NA	2	3	3490	25700	ug/kg
	CH48-025	2084144 337	751030 039	Benzo(b)fluoranthene	240	35	NA	2	3	34900	1010000	ug/kg
	CH48-025	2084144 337	751030 039	Benzo(k)fluoranthene	230	38	NA	2	3	349000	1010000	ug/kg
	CH48-025	**2084144.337**	**751030.039**	**Beryllium**	**15**	**0 12**	**14 200**	**2**	**3**	**921**	**2 15**	**mg/kg**
	CH48-025	2084144 337	751030 039	Chrysene	370	33	NA	2	3	3490000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Dibenz(a,h)anthracene	79	30	NA	2	3	3490	NA	ug/kg
	CH48-025	2084144 337	751030 039	Dibenzofuran	190	43	NA	2	3	2950000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Di-n-butylphthalate	180	25	NA	2	3	73700000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Fluoranthene	980	27	NA	2	3	27200000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Fluorene	240	41	NA	2	3	40800000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Indeno(1,2,3-cd)pyrene	180	27	NA	2	3	34900	NA	ug/kg
	CH48-025	2084144 337	751030 039	Lead	55	0 31	24 970	2	3	1000	25 6	mg/kg
	CH48-025	2084144 337	751030 039	Naphthalene	270	38	NA	2	3	3090000	NA	ug/kg
	CH48-025	2084144 337	751030 039	Phenol	120	42	NA	2	3	613000000	NA	ug/kg
	CH48-025	**2084144.337**	**751030 039**	**Plutonium-239/240**	**49,412 4**	**11.34**	**0 020**	**2**	**3**	**50**	**3800**	**pCi/g**
	CH48-025	2084144 337	751030 039	Pyrene	810	160	-	2	3	22100000	-	ug/kg
	CH48-025	2084144 337	751030 039	Strontium	280	0 067	211 380	2	3	613000	-	mg/kg

Table 6
Tanks 14 and 16 Characterization Soil Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start	Depth End	WRW AL	Ecological AL	Units
	CH48-025	2084144 337	751030 039	Tetrachloroethene	11 6	6 06	-	2	3	615000	37500	ug/kg
	CH48-025	2084144 337	751030 039	Uranium, Total	21	1 6	3 040	2	3	2750	67 8	mg/kg
	CH48-025	2084144 337	751030 039	Uranium-234	7 419	3 442	2 640	2	3	300	1800	pCi/g
	CH48-025	2084144 337	751030 039	Uranium-235	0 5346	0 3533	0 120	2	3	8	1900	pCi/g
	CH48-025	2084144 337	751030 039	Uranium-238	7 419	3 442	1 490	2	3	351	1600	pCi/g
	CH48-025	2084144 337	751030 039	Xylene	22 6	12 1	-	2	3	2040000	-	ug/kg
	CH48-026	**2084142 789**	**751041.813**	**Americium-241**	**168 9**	**1 293**	**0.023**	**0**	**0 5**	**76**	**1900**	**pCi/g**
	CH48-026	2084142 789	751041 813	Naphthalene	19 1	6 82	-	0	0 5	3090000	-	ug/kg
	CH48-026	**2084142.789**	**751041 813**	**Plutonium-239/240**	**1,367.95**	**1 293**	**0 066**	**0**	**0 5**	**50**	**3800**	**pCi/g**
	CH48-026	2084142 789	751041 813	2-Methylnaphthalene	120	35	-	2	3	20400000	-	ug/kg
	CH48-026	2084142 789	751041 813	Acenaphthene	250	34	-	2	3	40800000	-	ug/kg
	CH48-026	**2084142.789**	**751041 813**	**Americium-241**	**781 9**	**4 006**	**0 020**	**2**	**3**	**76**	**1900**	**pCi/g**
	CH48-026	2084142 789	751041 813	Anthracene	290	26	-	2	3	204000000	-	ug/kg
	CH48-026	2084142 789	751041 813	Benzo(a)anthracene	420	27	-	2	3	34900	800000	ug/kg
	CH48-026	2084142 789	751041 813	Benzo(a)pyrene	360	44	-	2	3	3490	25700	ug/kg
	CH48-026	2084142 789	751041 813	Benzo(b)fluoranthene	260	32	-	2	3	34900	1010000	ug/kg
	CH48-026	2084142 789	751041 813	Benzo(k)fluoranthene	320	35	-	2	3	349000	1010000	ug/kg
	CH48-026	2084142 789	751041 813	Chrysene	450	30	-	2	3	3490000	-	ug/kg
	CH48-026	2084142 789	751041 813	Dibenz(a,h)anthracene	97	27	-	2	3	3490	-	ug/kg
	CH48-026	2084142 789	751041 813	Dibenzofuran	150	39	-	2	3	2950000	-	ug/kg
	CH48-026	2084142 789	751041 813	Di-n-butylphthalate	3200	23	-	2	3	73700000	-	ug/kg
	CH48-026	2084142 789	751041 813	Fluoranthene	1100	25	-	2	3	27200000	-	ug/kg
	CH48-026	2084142 789	751041 813	Fluorene	200	37	-	2	3	40800000	-	ug/kg
	CH48-026	2084142 789	751041 813	Indeno(1,2,3-cd)pyrene	210	25	-	2	3	34900	-	ug/kg
	CH48-026	2084142 789	751041 813	Naphthalene	150	35	-	2	3	3090000	-	ug/kg
	CH48-026	**2084142 789**	**751041 813**	**Plutonium-239/240**	**6,320.99**	**4 006**	**0.020**	**2**	**3**	**50**	**3800**	**pCi/g**
	CH48-026	2084142 789	751041 813	Pyrene	990	150	-	2	3	22100000	-	ug/kg
	CH48-026	**2084142.789**	**751041 813**	**Uranium, Total**	**7.1**	**1.6**	**3 040**	**2**	**3**	**2750**	**67.8**	**mg/kg**
	CH48-026	2084142 789	751041 813	Uranium-234	4 319	2 051	2 640	2	3	300	1800	pCi/g
	CH48-026	2084142 789	751041 813	Uranium-235	0 2184	0 1569	0 120	2	3	8	1900	pCi/g
	CH48-026	2084142 789	751041 813	Uranium-238	4 319	2 051	1 490	2	3	351	1600	pCi/g

Table 7
IHSS Group 700-4 Recent Surface Water Results

Analyte	RFCA AL	GS11	SW093	SW120	GS44
Plutonium-239/240 (pCi/g)	0 15	No discharge	0 00 – 0 033	0 006 – 0 070	0 002 – 0 036
Americium-241 (pCi/g)	0 15	No discharge	0 00 –0 088	0 001 – 0 057	0 008 – 0 013
Total Uranium (pCi/g)	10	No discharge	2 563 – 4 159	1 437 – 3 395	0 154 – 2 983
Arsenic	50	No discharge	No analyses	Nondetect – 4 20	2 10 – 4 30

Table 8
Tanks 14 and 16 Soil Confirmation Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start (ft)	Depth End (ft)	WRW AL	Ecological AL	Units
Tank 14 (Tank 68)	CH48-050	751019 144	2084152 45	1,1-Dichloroethene	1 7	1 3	NA	2	2	17000	NA	ug/kg
	CH48-050	751019 144	2084152 45	1,2-Dichloropropane	3 4	1 4	NA	2	2	345000	NA	ug/kg
	CH48-050	751019 144	2084152 45	Acetone	13	5 5	NA	2	2	102000000	211000	ug/kg
	CH48-050	751019 144	2084152 45	Americium-241	6 74	0 238	0 02	2	2	76	1900	pCi/g
	CH48-050	751019 144	2084152 45	Methylene chloride	2 2	0 95	NA	2	2	2530000	39500	ug/kg
	CH48-050	751019 144	2084152 45	Plutonium-239/240	5 68	0 179	0 02	2	2	50	3800	pCi/g
	CH48-050	751019 144	2084152 45	Uranium, Total	15 1262	4 94505	3 04	2	2	2750	67 8	mg/kg
	CH48-050	751019 144	2084152 45	Uranium-234	5 093	1 665	2 64	2	2	300	1800	pCi/g
	CH48-050	751019 144	2084152 45	Uranium-235	0 2498	0 1249	0 12	2	2	8	1900	pCi/g
	CH48-050	751019 144	2084152 45	Uranium-238	5 093	1 665	1 49	2	2	351	1600	pCi/g
Tank 16 (Tanks 66 and 67)	CH48-041	2084143 870	751051 26	Acenaphthene	48 00	39 00	NA	4	4	40800000	NA	ug/kg
	CH48-041	2084143 870	751051 26	Aluminum	19000 00	6 10	16902 000	4	4	228000	NA	mg/kg
	CH48-041	2084143 870	751051 26	Americium-241	57 50	0 08	0 023	4	4	76	1900	pCi/g
	CH48-041	2084143 870	751051 26	Benzo(a)anthracene	56 00	31 00	NA	4	4	34900	800000	ug/kg
	CH48-041	2084143 870	751051 26	Chromium	17 00	0 19	16 990	4	4	268	NA	mg/kg
	CH48-041	2084143 870	751051 26	Chrysene	80 00	35 00	NA	4	4	3490000	NA	ug/kg
	CH48-041	2084143 870	751051 26	Fluoranthene	180 00	29 00	NA	4	4	27200000	NA	ug/kg
	CH48-041	2084143 870	751051 26	Methylene chloride	1 50	0 99	NA	4	4	2530000	39500	ug/kg
	CH48-041	2084143 870	751051 26	Naphthalene	1 70	1 10	NA	4	4	3090000	NA	ug/kg
	CH48-041	2084143 870	751051 26	Plutonium-239/240	44 90	0 17	0 066	4	4	50	3800	pCi/g
	CH48-041	2084143 870	751051 26	Pyrene	180 00	170 00	NA	4	4	22100000	NA	ug/kg
	CH48-041	2084143 870	751051 26	Strontium	55 00	0 07	48 940	4	4	613000	NA	mg/kg
	CH48-041	2084143 870	751051 26	Uranium-235	0 21	0 13	0 094	4	4	8	1900	pCi/g

Table 8
Tanks 14 and 16 Soil Confirmation Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start (ft)	Depth End (ft)	WRW AL	Ecological AL	Units
	CH48-042	2084144 159	751043 89	Aluminum	18000 00	5 70	16902 000	4	4	228000	NA	mg/kg
	CH48-042	2084144 159	751043 89	Americium-241	11 30	0 22	0 023	4	4	76	1900	pCi/g
	CH48-042	2084144 159	751043 89	Chromium	17 00	0 18	16 990	4	4	268	NA	mg/kg
	CH48-042	2084144 159	751043 89	Methylene chloride	1 50	1 00	NA	4	4	2530000	39500	ug/kg
	CH48-042	2084144 159	751043 89	Plutonium-239/240	7 00	0 07	0 066	4	4	50	3800	pCi/g
	CH48-042	2084144 159	751043 89	Strontium	52 00	0 07	48 940	4	4	613000	NA	mg/kg
	CH48-042	2084144 159	751043 89	Uranium, Total	14 95	6 90	5 980	4	4	2750	67 8	mg/kg
	CH48-042	2084144 159	751043 89	Uranium-234	5 03	2 32	2 253	4	4	300	1800	pCi/g
	CH48-042	2084144 159	751043 89	Uranium-235	0 42	0 20	0 094	4	4	8	1900	pCi/g
	CH48-042	2084144 159	751043 89	Uranium-238	5 03	2 32	2 000	4	4	351	1600	pCi/g
	CH48-043	2084144	751037 8	1,1-Dichloroethene	1 30	1 30	NA	4	4	17000	NA	ug/kg
	CH48-043	2084144	751037 8	2-Butanone	7 00	5 60	NA	4	4	192000000	433000	ug/kg
	CH48-043	2084144	751037 8	2-Methylnaphthalene	110 00	38 00	NA	4	4	20400000	NA	ug/kg
	CH48-043	2084144	751037 8	4-Methyl-2-pentanone	6 20	4 70	NA	4	4	16400000	NA	ug/kg
	CH48-043	2084144	751037 8	Acenaphthene	350 00	37 00	NA	4	4	40800000	NA	ug/kg
	CH48-043	**2084144**	**751037.8**	**Americium-241**	**226 00**	**0 14**	**0 023**	**4**	**4**	**76**	**1900**	**pCi/g**
	CH48-043	2084144	751037 8	Anthracene	430 00	28 00	NA	4	4	204000000	NA	ug/kg
	CH48-043	2084144	751037 8	Benzo(a)anthracene	580 00	29 00	NA	4	4	34900	800000	ug/kg
	CH48-043	2084144	751037 8	Benzo(a)pyrene	480 00	48 00	NA	4	4	3490	25700	ug/kg
	CH48-043	2084144	751037 8	Benzo(b)fluoranthene	350 00	34 00	NA	4	4	34900	1010000	ug/kg
	CH48-043	2084144	751037 8	Benzo(k)fluoranthene	430 00	38 00	NA	4	4	349000	1010000	ug/kg
	CH48-043	2084144	751037 8	Beryllium	1 10	0 12	0 966	4	4	921	2 15	mg/kg
	CH48-043	2084144	751037 8	Chrysene	600 00	33 00	NA	4	4	3490000	NA	ug/kg
	CH48-043	2084144	751037 8	Dibenzofuran	170 00	43 00	NA	4	4	2950000	NA	ug/kg
	CH48-043	2084144	751037 8	Fluoranthene	1400 00	27 00	NA	4	4	27200000	NA	ug/kg
	CH48-043	2084144	751037 8	Fluorene	310 00	40 00	NA	4	4	40800000	NA	ug/kg

Table 8
Tanks 14 and 16 Soil Confirmation Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start (ft)	Depth End (ft)	WRW AL	Ecological AL	Units
	CH48-043	2084144	751037 8	Indeno(1,2,3-cd)pyrene	250 00	27 00	NA	4	4	34900	NA	ug/kg
	CH48-043	2084144	751037 8	Iron	34000 00	1 60	18037 000	4	4	307000	NA	mg/kg
	CH48-043	2084144	751037 8	Methylene chloride	1 50	0 96	NA	4	4	2530000	39500	ug/kg
	CH48-043	2084144	751037 8	Naphthalene	260 00	38 00	NA	4	4	3090000	NA	ug/kg
	CH48-043	2084144	751037 8	Nickel	29 00	0 23	14 910	4	4	20400	NA	mg/kg
	CH48-043	**2084144**	**751037 8**	**Plutonium-239/240**	**93 20**	**0 16**	**0 066**	**4**	**4**	**50**	**3800**	**pCi/g**
	CH48-043	2084144	751037 8	Pyrene	1400 00	160 00	NA	4	4	22100000	NA	ug/kg
	CH48-043	2084144	751037 8	Strontium	52 00	0 07	48 940	4	4	613000	NA	mg/kg
	CH48-043	2084144	751037 8	Uranium, Total	6 71	4 16	5 980	4	4	2750	67 8	mg/kg
	CH48-043	2084144	751037 8	Uranium-234	2 26	1 40	2 253	4	4	300	1800	pCi/g
	CH48-043	2084144	751037 8	Uranium-235	0 34	0 18	0 094	4	4	8	1900	pCi/g
	CH48-043	2084144	751037 8	Uranium-238	2 26	1 40	2 000	4	4	351	1600	pCi/g
	CH48-043	2084144	751037 8	Zinc	78 00	0 53	73 760	4	4	307000	NA	mg/kg
	CH48-044	2084131	751037 3	Acenaphthene	120 00	36 00	NA	4	4	40800000	NA	ug/kg
	CH48-044	**2084131**	**751037.3**	**Americium-241**	**206 00**	**0 13**	**0.023**	**4**	**4**	**76**	**1900**	**pCi/g**
	CH48-044	2084131	751037 3	Anthracene	130 00	27 00	NA	4	4	204000000	NA	ug/kg
	CH48-044	2084131	751037 3	Benzo(a)anthracene	230 00	29 00	NA	4	4	34900	800000	ug/kg
	CH48-044	2084131	751037 3	Benzo(a)pyrene	200 00	47 00	NA	4	4	3490	25700	ug/kg
	CH48-044	2084131	751037 3	Benzo(b)fluoranthene	150 00	33 00	NA	4	4	34900	1010000	ug/kg
	CH48-044	2084131	751037 3	Benzo(k)fluoranthene	190 00	37 00	NA	4	4	349000	1010000	ug/kg
	CH48-044	2084131	751037 3	Beryllium	1 20	0 11	0 966	4	4	921	2 15	mg/kg
	CH48-044	2084131	751037 3	Chrysene	280 00	32 00	NA	4	4	3490000	NA	ug/kg
	CH48-044	2084131	751037 3	Dibenzofuran	50 00	42 00	NA	4	4	2950000	NA	ug/kg
	CH48-044	2084131	751037 3	Fluoranthene	600 00	26 00	NA	4	4	27200000	NA	ug/kg
	CH48-044	2084131	751037 3	Fluorene	83 00	39 00	NA	4	4	40800000	NA	ug/kg
	CH48-044	2084131	751037 3	Indeno(1,2,3-cd)pyrene	120 00	26 00	NA	4	4	34900	NA	ug/kg

Table 8
Tanks 14 and 16 Soil Confirmation Sampling Results

IHSS/PAC/UBC Site	Location Code	Actual Easting	Actual Northing	Analyte	Result	Detection Limit	Background Mean + 2 SD	Depth Start (ft)	Depth End (ft)	WRW AL	Ecological AL	Units
	CH48-044	2084131	751037 3	Iron	22000 00	1 60	18037 000	4	4	307000	NA	mg/kg
	CH48-044	2084131	751037 3	Methylene chloride	1 50	0 96	NA	4	4	2530000	39500	ug/kg
	CH48-044	2084131	751037 3	Nickel	17 00	0 22	14 910	4	4	20400	NA	mg/kg
	CH48-044	**2084131**	**751037.3**	**Plutonium-239/240**	**61 10**	**0 14**	**0 066**	**4**	**4**	**50**	**3800**	**pCi/g**
	CH48-044	2084131	751037 3	Pyrene	550 00	160 00	NA	4	4	22100000	NA	ug/kg
	CH48-044	2084131	751037 3	Uranium-235	0 14	0 12	0 094	4	4	8	1900	pCi/g
	CH48-044	2084131	751037 3	Zinc	74 00	0 51	73 760	4	4	307000	NA	mg/kg
	CH48-045	2084130 56	751025 5	Americium-241	31 47	0 65	0 023	3	4	76	1900	pCi/g
	CH48-045	**2084130 56**	**751025 5**	**Plutonium-239/240**	**179 38**	**0.65**	**0 066**	**3**	**4**	**50**	**3800**	**pCi/g**
	CH48-045	2084130 56	751025 5	Uranium-235	0 11	0 10	0 094	3	4	8	1900	pCi/g
	CH48-046	2084140 32	751039 77	Americium-241	6 57	0 58	0 023	3	4	76	1900	pCi/g
	CH48-046	2084140 32	751039 77	Plutonium-239/240	37 45	0 58	0 066	3	4	50	3800	pCi/g
	CH48-046	2084140 32	751039 77	Uranium, Total	11 39	4 96	5 980	3	4	2750	67 8	mg/kg
	CH48-046	2084140 32	751039 77	Uranium-234	3 84	1 67	2 253	3	4	300	1800	pCi/g
	CH48-046	2084140 32	751039 77	Uranium-235	0 23	0 13	0 094	3	4	8	1900	pCi/g
	CH48-046	2084140 32	751039 77	Uranium-238	3 84	1 67	2 000	3	4	351	1600	pCi/g

Table 9
RFCA Radionuclide SORs for Confirmation Samples

Location	Start Depth (ft)	End Depth (ft)	SOR
CH48-041	4 0	4 0	8 696
CH48-042	4 0	4 0	0 771
CH48-043	4 0	4 0	24 781
CH48-044	4 0	4 0	40 201
CH48-045	3 0	4 0	2 648
CH48-046	3 0	4 0	0 625
CH48-050	2 0	2 0	1 125

Table 10
Sampling Summary

Category	Characterization Samples	Tank Samples	Confirmation Samples
Number of Sampling Locations	141	3	6
Number of Samples	487	9	18
Number of Radionuclide Analyses	163	3	6
Number of Metal Analyses	140	0	6
Number of VOC Analyses	44	0	6
Number of SVOC Analyses	92	3	6
Number of PCB Analyses	22	0	0
Number of Nitrate Analyses	26	0	0

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Table 11
Surface Soil Characterization Summary Statistics

Analyte	Number Samples	Detection Frequency	Average	Maximum	Detection Limit	Background	WRW AL	Ecological AL	Unit
1,1-Dichloroethene	29	3 45%	1 30	1 3	1 30	-	17000	-	ug/kg
1,2-Dichloropropane	29	3 45%	12 00	12	5 87	-	345000	-	ug/kg
2-Butanone	29	6 90%	58 50	110	61 30	-	192000000	433000	ug/kg
2-Methylnaphthalene	64	9 38%	281 67	910	38 50	-	20400000	-	ug/kg
4-Methyl-2-pentanone	29	17 24%	165 24	688	49 72	-	16400000	-	ug/kg
Acenaphthene	64	35 94%	432 04	4600	48 52	-	40800000	-	ug/kg
Acetone	29	62 07%	29 39	120	113 89	-	102000000	211000	ug/kg
Aluminum	8	50 00%	22250 00	27000	4 30	16902 00	228000	-	mg/kg
Americium-241	108	24 07%	90 94	727 9	0 78	0 02	76	1900	pCi/g
Anthracene	64	37 50%	746 04	6200	68 00	-	204000000	-	ug/kg
Antimony	90	6 67%	10 91	19 2	7 00	0 47	409	-	mg/kg
Aroclor-1254	20	45 00%	59 89	96	4 86	-	12400	371000	ug/kg
Aroclor-1260	20	20 00%	42 25	74	5 35	-	12400	-	ug/kg
Arsenic	90	63 33%	13 47	30	4 92	10 09	22 2	21 6	mg/kg
Barium	90	90 00%	645 73	1030	96 80	141 26	26400	-	mg/kg
Benzene	29	6 90%	1 10	1 2	5 52	-	205000	-	ug/kg
Benzo(a)anthracene	64	65 63%	1338 12	22000	60 31	-	34900	800000	ug/kg
Benzo(a)pyrene	64	57 81%	1564 89	23000	82 84	-	3490	25700	ug/kg
Benzo(b)fluoranthene	64	48 44%	1489 10	19000	106 81	-	34900	1010000	ug/kg
Benzo(k)fluoranthene	64	46 88%	1583 60	20000	116 63	-	349000	1010000	ug/kg
Benzyl Alcohol	64	6 25%	295 00	520	91 50	-	307000000	-	ug/kg
Beryllium	8	50 00%	1 15	1 3	0 08	0 97	921	2 15	mg/kg
bis(2-Ethylhexyl)phthalate	64	14 06%	273 33	830	76 22	-	1970000	-	ug/kg
Butylbenzylphthalate	64	4 69%	1440 00	4100	69 50	-	147000000	-	ug/kg

Table 11
Surface Soil Characterization Summary Statistics

Analyte	Number Samples	Detection Frequency	Average	Maximum	Detection Limit	Background	WRW AL	Ecological AL	Unit
Chromium	90	91 11%	40 91	104	18 79	16 99	268	-	mg/kg
Chrysene	64	65 63%	1565 26	24000	52 74	-	3490000	-	ug/kg
Cobalt	90	1 11%	11 00	11	0 08	10 91	1550	-	mg/kg
Copper	90	91 11%	103 26	291	3 91	18 06	40900	-	mg/kg
Di-n-octylphthalate	64	3 13%	5530 50	11000	153 50	-	14700000	-	ug/kg
Dibenz(a,h)anthracene	64	26 56%	722 00	5500	69 65	-	3490	-	ug/kg
Dibenzofuran	64	12 50%	524 63	2700	52 00	-	2950000	-	ug/kg
Ethylbenzene	29	13 79%	2 45	3	5 96	-	4250000	-	ug/kg
Fluoranthene	64	64 06%	2770 07	42000	61 49	-	27200000	-	ug/kg
Fluorene	64	26 56%	473 29	3600	57 88	-	40800000	-	ug/kg
Indeno(1,2,3-cd)pyrene	64	48 44%	1153 94	16000	74 58	-	34900	-	ug/kg
Iron	90	90 00%	33203 70	66900	2081 94	18037 00	307000	-	mg/kg
Lead	90	4 44%	108 48	202	7 00	54 62	1000	25 6	mg/kg
Lithium	8	25 00%	14 00	14	0 14	11 55	20400	-	mg/kg
Manganese	90	62 22%	600 32	1680	155 18	365 08	3480	-	mg/kg
Methylene chloride	29	13 79%	1 50	1 5	0 98	-	2530000	39500	ug/kg
Naphthalene	93	26 88%	114 89	1000	22 95	-	3090000	-	ug/kg
Nickel	90	94 44%	41 75	89 6	11 31	14 91	20400	-	mg/kg
Plutonium-239/240	108	23 15%	612 98	5884 672	0 80	0 07	50	3800	pCi/g
Pyrene	64	64 06%	2686 24	41000	96 90	-	22100000	-	ug/kg
Selenium	90	3 33%	1 52	1 6	0 87	1 22	5110	-	mg/kg
Strontium	90	94 44%	200 52	560	18 83	48 94	613000	-	mg/kg
Tetrachloroethene	29	3 45%	9 10	9 1	5 87	-	615000	37500	ug/kg
Tin	90	43 33%	5 57	16 5	3 81	2 90	613000	-	mg/kg
Toluene	29	13 79%	3 63	4 8	5 75	-	31300000	128000	ug/kg
Trichloroethene	29	3 45%	0 80	0 8	5 80	-	19600	509000	ug/kg

Table 11
Surface Soil Characterization Summary Statistics

Analyte	Number Samples	Detection Frequency	Average	Maximum	Detection Limit	Background	WRW AL	Ecological AL	Unit
Uranium, Total	632	25 47%	10 43	18 414	5 07	5 98	2750	67 8	mg/kg
Uranium-234	108	71 30%	3 79	6 2	1 82	2 25	300	1800	pCi/g
Uranium-235	108	70 37%	0 22	0 44	1 00	0 09	8	1900	pCi/g
Uranium-238	108	75 93%	3 69	6 2	1 81	2 00	351	1600	pCi/g
Vanadium	90	64 44%	133 99	211	29 41	45 59	7150	433	mg/kg
Xylene	29	17 24%	10 32	17	11 98	-	2040000	-	ug/kg
Zinc	90	85 56%	159 44	450	8 67	73 76	307000	-	mg/kg

Table 12
Subsurface Soil Characterization Summary Statistics

Analyte Name	Number Samples	Detection Frequency	Average	Maximum	Detection Limit	Background	WRW AL	Ecological AL	Unit
1,1-Dichloroethene	49	2 04%	1 70	1 7	1 30	-	17000	-	ug/kg
1,2,4-Trichlorobenzene	88	1 14%	0 88	0 88	0 79	-	9230000	-	ug/kg
1,2-Dichloropropane	49	6 12%	6 42	9 61	4 60	-	345000	-	ug/kg
1,4-Dichlorobenzene	50	2 00%	170 00	170	5 00	-	840000	-	ug/kg
2-Butanone	49	4 08%	21 95	33 9	120 50	-	192000000	433000	ug/kg
2-Methylnaphthalene	39	7 69%	120 67	200	37 33	-	20400000	-	ug/kg
4-Methyl-2-pentanone	49	16 33%	63 63	303	55 36	-	16400000	-	ug/kg
Acenaphthene	39	7 69%	256 67	310	40 33	-	40800000	-	ug/kg
Acetone	49	67 35%	37 53	460	106 86	-	102000000	211000	ug/kg
Americium-241	141	12 77%	649 22	6115	5 76	0 02	76	1900	pCi/g
Anthracene	39	12 82%	222 00	290	53 60	-	204000000	-	ug/kg
Aroclor-1254	13	7 69%	13 00	13	4 60	-	12400	371000	ug/kg
Arsenic	83	21 69%	16 72	24 8	4 75	13 14	22 2	21 6	mg/kg
Barium	83	67 47%	664 20	1700	98 00	289 38	26400	-	mg/kg
Benzene	49	2 04%	1 00	1	5 40	-	205000	-	ug/kg
Benzo(a)anthracene	38	15 79%	325 00	480	37 50	-	34900	800000	ug/kg
Benzo(a)pyrene	38	15 79%	310 00	520	52 00	-	3490	25700	ug/kg
Benzo(b)fluoranthene	38	15 79%	251 17	450	56 33	-	34900	1010000	ug/kg
Benzo(k)fluoranthene	38	15 79%	269 50	440	61 17	-	349000	1010000	ug/kg
Benzyl Alcohol	38	5 26%	930 00	1600	91 00	-	307000000	-	ug/kg
Beryllium	26	11 54%	7 03	15	0 09	14 2	921	2 15	mg/kg
bis(2-Ethylhexyl)phthalate	38	7 89%	233 33	440	76 67	-	1970000	-	ug/kg
Butylbenzylphthalate	38	2 63%	110 00	110	68 00	-	147000000	-	ug/kg
Cadmium	83	4 82%	6 98	12	0 79	1 7	962	-	mg/kg
Chloroform	49	2 04%	9 80	9 8	6 50	-	19200	101000	ug/kg
Chromium	83	2 41%	89 95	106	20 00	68 27	268	-	mg/kg
Chrysene	38	15 79%	371 67	580	35 00	-	3490000	-	ug/kg
Copper	83	62 65%	104 01	234	4 00	38 21	40900	-	mg/kg
Di-n-butylphthalate	38	10 53%	958 75	3200	46 25	-	73700000	-	ug/kg

Table 12
Subsurface Soil Characterization Summary Statistics

Analyte Name	Number Samples	Detection Frequency	Average	Maximum	Detection Limit	Background	WRW AL	Ecological AL	Unit
Dibenz(a,h)anthracene	38	10 53%	104 00	120	48 00	-	3490	-	ug/kg
Dibenzofuran	38	7 89%	145 67	190	46 00	-	2950000	-	ug/kg
Ethylbenzene	49	12 24%	33 86	144	8 60	-	4250000	-	ug/kg
Fluoranthene	38	18 42%	708 57	1400	37 57	-	27200000	-	ug/kg
Fluorene	38	7 89%	203 33	240	46 00	-	40800000	-	ug/kg
Indeno(1,2,3-cd)pyrene	38	13 16%	193 20	260	39 20	-	34900	-	ug/kg
Iron	83	3 61%	52300 00	72600	2190 00	41046 52	307000	-	mg/kg
Lead	83	18 07%	33 92	55	6 10	24 97	1000	25 6	mg/kg
Manganese	83	1 20%	1580 00	1580	158 00	901 62	3480	-	mg/kg
Methylene chloride	49	8 16%	1 73	2 2	0 90	-	2530000	39500	ug/kg
Naphthalene	87	29 89%	33 07	270	9 49	-	3090000	-	ug/kg
Nickel	83	1 20%	71 90	71 9	12 00	62 21	20400	-	mg/kg
Nitrate	17	41 18%	4 13	12	0 24	-	1000000	-	mg/kg
Phenol	38	5 26%	115 00	120	51 50	-	613000000	-	ug/kg
Plutonium-239/240	143	11 89%	5060 51	49412 44	5 80	0 02	50	3800	pCi/g
Pyrene	38	18 42%	684 29	1300	87 71	-	22100000	-	ug/kg
Strontium	83	10 84%	274 22	338	17 79	211 38	613000	-	mg/kg
Tetrachloroethene	49	6 12%	5 77	11 6	5 99	-	615000	37500	ug/kg
Toluene	49	12 24%	67 18	193	7 77	-	31300000	128000	ug/kg
Trichloroethene	49	2 04%	1 00	1	6 50	-	19600	509000	ug/kg
Uranium, Total	790	29 11%	10 83	63 5877	4 74	3 04	2750	67 8	mg/kg
Uranium-234	139	69 78%	4 30	21 41	1 83	2 64	300	1800	pCi/g
Uranium-235	139	69 06%	0 24	0 634	0 34	0 12	8	1900	pCi/g
Uranium-238	139	79 86%	4 04	21 41	1 78	1 49	351	1600	pCi/g
Vanadium	83	66 27%	141 44	235	30 44	88 49	7150	433	mg/kg
Xylene	49	22 45%	132 36	1040	13 86	-	2040000	-	ug/kg
Zinc	83	13 25%	240 36	582	8 24	139 1	307000	-	mg/kg

Table 13
Waste Characterization Summary

Container Number	Extended Number	Container Type	Volume (cu.ft.)	Waste Type	Gross Weight (lbs)	Status	IDC	Waste Codes	Disposition
B07252	02-69103	IP1	90	LLW	5480	Certified (C)	374	NA	Anticpated Ship Data 12/18/03
B07250	02-69102	IP1	90	LLW	5730	C	374	NA	Anticpated Ship Data 12/18/03
B07247	02-69106	IP1	90	LLW	6000	C	374	NA	Anticpated Ship Data 12/18/03
B07241	02-69108	IP1	90	LLW	7204	C	374	NA	Anticpated Ship Data 12/18/03
B07240	02-69107	IP1	90	LLW	6094	C	374	NA	Anticpated Ship Data 12/18/03
B07048	02-69203	IP1	90	LLW	5684	C	374	NA	Anticpated Ship Data 12/18/03
B06992	02-69104	IP1	90	LLW	5080	C	374	NA	Anticpated Ship Data 12/18/03
B06987	02-69201	IP1	90	LLW	6448	C	374	NA	Anticpated Ship Data 12/18/03
B07256	02-69207	IP1	90	LLW	5620	C	374	NA	Anticpated Ship Data 12/18/03
B07251	02-69204	IP1	90	LLW	6146	C	374	NA	Anticpated Ship Data 12/18/03
B07244	02-69202	IP1	90	LLW	6444	C	374	NA	Anticpated Ship Data 12/18/03
B07043	02-69105	IP1	90	LLW	6810	C	374	NA	Anticpated Ship Data 12/18/03
B07042	02-69208	IP1	90	LLW	6224	C	374	NA	Anticpated Ship Data 12/18/03
B07040	02-69206	IP1	90	LLW	6244	C	374	NA	Anticpated Ship Data 12/18/03
B06988	02-69205	IP1	90	LLW	5866	C	374	NA	Anticpated Ship Data 12/18/03
B06961	02-69200	IP1	90	LLW	5860	C	371	NA	Anticpated Ship Data 12/18/03
B07252	02-69103	IP1	90	LLW	5480	C	374	NA	Anticpated Ship Data 12/18/03
B07250	02-69102	IP1	90	LLW	5730	C	374	NA	Anticpated Ship Data 12/18/03

Table 13
Waste Characterization Summary

Container Number	Extended Number	Container Type	Volume (cu.ft.)	Waste Type	Gross Weight (lbs)	Status	IDC	Waste Codes	Disposition
B07247	02-69106	IP1	90	LLW	6000	C	374	NA	Anticpated Ship Data 12/18/03
B07241	02-69108	IP1	90	LLW	7204	C	374	NA	Anticpated Ship Data 12/18/03
B07240	02-69107	IP1	90	LLW	6094	C	374	NA	Anticpated Ship Data 12/18/03
B07048	02-69203	IP1	90	LLW	5684	C	374	NA	Anticpated Ship Data 12/18/03
B06992	02-69104	IP1	90	LLW	5080	C	374	NA	Anticpated Ship Data 12/18/03
B06987	02-69201	IP1	90	LLW	6448	C	374	NA	Anticpated Ship Data 12/18/03
X31781	0771-07509	IP1	44	LLW	2522	Active	374	NA	Anticpated Ship Data 12/18/03
X31795	0771-07511	IP1	44	LLW	2520	Active	374	NA	Anticpated Ship Data 12/18/03
X31793	0771-07510	IP1	44	LLW	2244	Active	374	NA	Anticpated Ship Data 12/18/03
LO3200	0771-07470	ILM	675	LLW	40,800	Active	374	NA	Anticipated Ship Date 12/31/03
L03201	0771-07471	ILM	675	LLW	38,640	Active	374	NA	Anticipated Ship Date 12/31/03
L03203	0771-07473	ILM	675	LLW	43,600	Active	374	NA	Anticipated Ship Date 12/31/03
L03204	0771-07474	ILM	675	LLW	42,540	Active	374	NA	Anticipated Ship Date 12/31/03
L03205	0771-07475	ILM	675	LLW	39,460	Active	374	NA	Anticipated Ship Date 12/31/03
L03206	0771-07476	ILM	675	LLW	40,680	Active	374	NA	Anticipated Ship Date 12/31/03
L03207	0771-07477.	ILM	675	LLW	41,020	Active	374	NA	Anticipated Ship Date 12/31/03
L03202	0771-07472	ILM	675	LLW	40,960	Active	374	NA	Anticipated Ship Date 12/31/03

Table 14
No Longer Representative Sampling Locations

NLR Sampling Locations
CH48-025
CH48-026
CH48-027
CH48-017

Table 15
Laboratory Control Sample Evaluation

CAS No	Analyte	Minimum	Maximum	Number of Analytes	Number of Laboratory Batches	Unit	Test Method
71-55-6	1,1,1-Trichloroethane	83 91	116 8	18	17	%REC	SW-846 8260
79-34-5	1,1,2,2-Tetrachloroethane	71	127 9	18	17	%REC	SW-846 8260
79-00-5	1,1,2-Trichloroethane	75	123 2	18	17	%REC	SW-846 8260
75-34-3	1,1-Dichloroethane	79 69	116 6	18	17	%REC	SW-846 8260
75-35-4	1,1-Dichloroethene	74	134 8	18	17	%REC	SW-846 8260
120-82-1	1,2,4-Trichlorobenzene	87	140 9	18	17	%REC	SW-846 8260
120-82-1	1,2,4-Trichlorobenzene	58	76	21	17	%REC	SW-846 8270
95-50-1	1,2-Dichlorobenzene	85	114 7	18	17	%REC	SW-846 8260
107-06-2	1,2-Dichloroethane	74 31	111 2	18	17	%REC	SW-846 8260
71-55-6	1,1,1-Trichloroethane	83 91	116 8	18	17	%REC	SW-846 8260
78-87-5	1,2-Dichloropropane	76 93	113 6	18	17	%REC	SW-846 8260
106-46-7	1,4-Dichlorobenzene	87	121 3	18	17	%REC	SW-846 8260
95-95-4	2,4,5-Trichlorophenol	57	80	21	17	%REC	SW-846 8270
88-06-2	2,4,6-Trichlorophenol	58	80	21	17	%REC	SW-846 8270
120-83-2	2,4-Dichlorophenol	60	76	21	17	%REC	SW-846 8270
105-67-9	2,4-Dimethylphenol	60	79	21	17	%REC	SW-846 8270
51-28-5	2,4-Dinitrophenol	37	81	21	17	%REC	SW-846 8270
121-14-2	2,4-Dinitrotoluene	59	83	21	17	%REC	SW-846 8270
606-20-2	2,6-Dinitrotoluene	60	78	21	17	%REC	SW-846 8270
78-93-3	2-Butanone	56 63	111	18	17	%REC	SW-846 8260
91-58-7	2-Chloronaphthalene	59	73	21	17	%REC	SW-846 8270
95-57-8	2-Chlorophenol	62	75	21	17	%REC	SW-846 8270
91-57-6	2-Methylnaphthalene	59	75	21	17	%REC	SW-846 8270
95-48-7	2-Methylphenol	57	71	21	17	%REC	SW-846 8270
88-74-4	2-Nitroaniline	57	77	21	17	%REC	SW-846 8270
91-94-1	3,3'-Dichlorobenzidine	36	99	21	17	%REC	SW-846 8270
534-52-1	4,6-Dinitro-2-methylphenol	47	80	21	17	%REC	SW-846 8270
106-47-8	4-Chloroaniline	19	52	21	17	%REC	SW-846 8270
108-10-1	4-Methyl-2-pentanone	80	123 5	18	17	%REC	SW-846 8260
106-44-5	4-Methylphenol	55	74	21	17	%REC	SW-846 8270
100-02-7	4-Nitrophenol	59	89	21	17	%REC	SW-846 8270
83-32-9	Acenaphthene	57	72	21	17	%REC	SW-846 8270
67-64-1	Acetone	43 48	105 9	18	17	%REC	SW-846 8260
7429-90-5	Aluminum	87	106	10	10	%REC	SW-846 6010
120-12-7	Anthracene	58	76	21	17	%REC	SW-846 8270
7440-36-0	Antimony	88	98	10	10	%REC	SW-846 6010
12674-11-2	Aroclor-1016	73	112	12	10	%REC	SW-846 8082
11096-82-5	Aroclor-1260	83	108	12	10	%REC	SW-846 8082

Table 15
Laboratory Control Sample Evaluation

CAS No	Analyte	Minimum	Maximum	Number of Analytes	Number of Laboratory Batches	Unit	Test Method
7440-38-2	Arsenic	87	99	10	10	%REC	SW-846 6010
7440-39-3	Barium	94	105	10	10	%REC	SW-846 6010
71-43-2	Benzene	79	112 5	18	17	%REC	SW-846 8260
56-55-3	Benzo(a)anthracene	55	74	21	17	%REC	SW-846 8270
50-32-8	Benzo(a)pyrene	56	74	21	17	%REC	SW-846 8270
205-99-2	Benzo(b)fluoranthene	52	76	21	17	%REC	SW-846 8270
207-08-9	Benzo(k)fluoranthene	54	75	21	17	%REC	SW-846 8270
65-85-0	Benzoic Acid	10	73	21	17	%REC	SW-846 8270
100-51-6	Benzyl Alcohol	61	77	21	17	%REC	SW-846 8270
7440-41-7	Beryllium	95	107	10	10	%REC	SW-846 6010
111-44-4	bis(2-Chloroethyl)ether	45	92	21	17	%REC	SW-846 8270
39638-32-9	bis(2-Chloroisopropyl)ether	59	76	21	17	%REC	SW-846 8270
117-81-7	bis(2-Ethylhexyl)phthalate	56	76	21	17	%REC	SW-846 8270
75-27-4	Bromodichloromethane	84 19	118 3	18	17	%REC	SW-846 8260
75-25-2	Bromoform	80	123 8	18	17	%REC	SW-846 8260
74-83-9	Bromomethane	57 22	151 3	18	17	%REC	SW-846 8260
85-68-7	Butylbenzylphthalate	60	77	21	17	%REC	SW-846 8270
7440-43-9	Cadmium	91	101	10	10	%REC	SW-846 6010
75-15-0	Carbon Disulfide	83 92	144 3	18	17	%REC	SW-846 8260
56-23-5	Carbon Tetrachloride	78 84	116 2	18	17	%REC	SW-846 8260
108-90-7	Chlorobenzene	76 41	114 9	18	17	%REC	SW-846 8260
75-00-3	Chloroethane	68 58	161 1	18	17	%REC	SW-846 8260
67-66-3	Chloroform	83 58	118	18	17	%REC	SW-846 8260
74-87-3	Chloromethane	63 64	181 5	18	17	%REC	SW-846 8260
7440-47-3	Chromium	92	104	10	10	%REC	SW-846 6010
218-01-9	Chrysene	55	77	21	17	%REC	SW-846 8270
10061-01-5	cis-1,3-Dichloropropene	69 4	117	18	17	%REC	SW-846 8260
7440-48-4	Cobalt	89	100	10	10	%REC	SW-846 6010
7440-50-8	Copper	90	102	10	10	%REC	SW-846 6010
84-74-2	Di-n-butylphthalate	61	78	21	17	%REC	SW-846 8270
117-84-0	Di-n-octylphthalate	55	79	21	17	%REC	SW-846 8270
53-70-3	Dibenz(a h)anthracene	49	79	21	17	%REC	SW-846 8270
132-64-9	Dibenzofuran	58	77	21	17	%REC	SW-846 8270
124-48-1	Dibromochloromethane	87	120 5	18	17	%REC	SW-846 8260
84-66-2	Diethylphthalate	62	82	21	17	%REC	SW-846 8270
131-11-3	Dimethylphthalate	60	75	21	17	%REC	SW-846 8270
100-41-4	Ethylbenzene	81	115 4	18	17	%REC	SW-846 8260
206-44-0	Fluoranthene	58	77	21	17	%REC	SW-846 8270
86-73-7	Fluorene	59	77	21	17	%REC	SW-846 8270

Table 15
Laboratory Control Sample Evaluation

CAS No	Analyte	Minimum	Maximum	Number of Analytes	Number of Laboratory Batches	Unit	Test Method
118-74-1	Hexachlorobenzene	58	79	21	17	%REC	SW-846 8270
87-68-3	Hexachlorobutadiene	57	82	21	17	%REC	SW-846 8270
87-68-3	Hexachlorobutadiene	82	127 4	18	17	%REC	SW-846 8260
77-47-4	Hexachlorocyclopentadiene	46	84	21	17	%REC	SW-846 8270
67-72-1	Hexachloroethane	60	75	21	17	%REC	SW-846 8270
193-39-5	Indeno(1,2,3-cd)pyrene	50	74	21	17	%REC	SW-846 8270
7439-89-6	Iron	93	105	10	10	%REC	SW-846 6010
78-59-1	Isophorone	63	98	21	17	%REC	SW-846 8270
7439-92-1	Lead	91	101	10	10	%REC	SW-846 6010
7439-93-2	Lithium	90	104	10	10	%REC	SW-846 6010
7439-96-5	Manganese	91	103	10	10	%REC	SW-846 6010
7439-97-6	Mercury	90	111	9	9	%REC	SW-846 6010
75-09-2	Methylene chloride	76	130 8	18	17	%REC	SW-846 8260
7439-98-7	Molybdenum	87	98	10	10	%REC	SW-846 6010
86-30-6	n-Nitrosodiphenylamine	66	87	21	17	%REC	SW-846 8270
621-64-7	n-Nitrosodipropylamine	59	74	21	17	%REC	SW-846 8270
91-20-3	Naphthalene	59	72	21	17	%REC	SW-846 8270
91-20-3	Naphthalene	79	125 8	18	17	%REC	SW-846 8260
7440-02-0	Nickel	91	100	10	10	%REC	SW-846 6010
14797-55-8	Nitrate	96	101	12	5	%REC	SW9056 OR E300 0 PREP E300 0
98-95-3	Nitrobenzene	62	76	21	17	%REC	SW-846 8270
87-86-5	Pentachlorophenol	34	77	21	17	%REC	SW-846 8270
108-95-2	Phenol	58	75	21	17	%REC	SW-846 8270
129-00-0	Pyrene	56	72	21	17	%REC	SW-846 8270
7782-49-2	Selenium	82	102	10	10	%REC	SW-846 6010
7440-22-4	Silver	91	102	10	10	%REC	SW-846 6010
7440-24-6	Strontium	93	103	10	10	%REC	SW-846 6010
100-42-5	Styrene	80	110 7	18	17	%REC	SW-846 8260
127-18-4	Tetrachloroethene	76	153	18	17	%REC	SW-846 8260
7440-31-5	Tin	87	98	10	10	%REC	SW-846 6010
108-88-3	Toluene	77	124	18	17	%REC	SW-846 8260
10061-02-6	trans-1,3-Dichloropropene	89	133 4	18	17	%REC	SW-846 8260
79-01-6	Trichloroethene	75 03	123 4	18	17	%REC	SW-846 8260
11-09-7	Uranium, Total	94	107	10	10	%REC	SW-846 6010
7440-62-2	Vanadium	91	103	10	10	%REC	SW-846 6010
75-01-4	Vinyl chloride	59 35	195 7	18	17	%REC	SW-846 8260
1330-20-7	Xylene	80	113 6	18	17	%REC	SW-846 8260
7440-66-6	Zinc	90	99	10	10	%REC	SW-846 6010

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Table 16
Surrogate Recovery Summary

VOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
44	1,2-Dichloroethane -d4	86	129 5	%REC
44	Bromofluorobenzene	85 52	118 7	%REC
44	Toluene - d8	83	116 1	%REC
SVOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
76	2-Fluorobiphenyl	42	69	%REC
76	Nitrobenzene-d5	50	84	%REC
76	o-Fluorophenol	44	85	%REC
76	Terphenyl-d14	43	82	%REC

Table 17
Field Blank Summary

Sample QC Code	Test Method Name	Analyte	Maximum Detected Value	Unit
FB	SW-846 8260	2-Butanone	2 4	ug/L
TB	SW-846 8260	2-Butanone	2 9	ug/L
TB	SW-846 8260	Acetone	30	ug/L
TB	SW-846 8260	Acetone	20	ug/L
RNS	SW-846 6010	Aluminum	0 34	mg/L
RNS	SW-846 6010	Aluminum	0 048	mg/L
RNS	ALPHA SPEC	Americium-241	0 0484	pCi/L
RNS	SW-846 6010	Barium	0 0053	mg/L
TB	SW-846 8260	Benzene	2	ug/L
RNS	SW-846 6010	Beryllium	0 00066	mg/L
RNS	SW-846 6010	Cadmium	0 00038	mg/L
RNS	SW-846 6010	Chromium	0 0027	mg/L
RNS	SW-846 6010	Copper	0 011	mg/L
RNS	SW-846 6010	Copper	0 0017	mg/L
RNS	SW-846 6010	Iron	0 25	mg/L
RNS	SW-846 6010	Iron	0 074	mg/L
RNS	SW-846 6010	Lithium	0 0015	mg/L
RNS	SW-846 6010	Manganese	0 003	mg/L
FB	SW-846 8260	Naphthalene	0 8	ug/L
TB	SW-846 8260	Naphthalene	1 2	ug/L
TB	SW-846 8260	Naphthalene	1	ug/L
RNS	SW9056 OR E300 0	Nitrate	0 22	mg/L
RNS	ALPHA SPEC	Plutonium-239/240	0 0812	pCi/L
RNS	SW-846 6010	Strontium	0 0065	mg/L
TB	SW-846 8260	Toluene	6 09	ug/L
RNS	ALPHA SPEC	Uranium-234	0 129	pCi/L
RNS	GAMMA SPECTROSCOPY	Uranium-235	0 154	PCI/G-WET
RNS	GAMMA SPECTROSCOPY	Uranium-238	2 9	PCI/G-WET
RNS	GAMMA SPECTROSCOPY	Uranium-238	2 54	PCI/G-WET
TB	SW-846 8260	Xylene	3 6	ug/L
RNS	SW-846 6010	Zinc	0 021	mg/L

Field Blanks (Trip, Rinse, Field) results greater than detection limits (not *U* Qualified)

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Table 18
Sample Matrix Spike Evaluation

CAS No.	Analyte	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
71-55-6	1,1,1-Trichloroethane	61 28	105	15	15	%REC	SW-846 8260
79-34-5	1,1,2,2-Tetrachloroethane	0	102 5	15	15	%REC	SW-846 8260
79-00-5	1,1,2-Trichloroethane	17 38	97 48	15	15	%REC	SW-846 8260
75-34-3	1,1-Dichloroethane	61 6	105 5	15	15	%REC	SW-846 8260
75-35-4	1,1-Dichloroethene	49 72	153 9	15	15	%REC	SW-846 8260
120-82-1	1,2,4-Trichlorobenzene	35 82	83 46	15	15	%REC	SW-846 8260
120-82-1	1,2,4-Trichlorobenzene	44	68	16	16	%REC	SW-846 8270
95-50-1	1,2-Dichlorobenzene	49 8	90 2	15	15	%REC	SW-846 8260
107-06-2	1,2-Dichloroethane	69 31	111	15	15	%REC	SW-846 8260
78-87-5	1,2-Dichloropropane	63 26	124 4	15	15	%REC	SW-846 8260
106-46-7	1,4-Dichlorobenzene	50 21	90 7	15	15	%REC	SW-846 8260
95-95-4	2,4,5-Trichlorophenol	49	73	16	16	%REC	SW-846 8270
88-06-2	2,4,6-Trichlorophenol	49	74	16	16	%REC	SW-846 8270
120-83-2	2,4-Dichlorophenol	47	71	16	16	%REC	SW-846 8270
105-67-9	2,4-Dimethylphenol	49	74	16	16	%REC	SW-846 8270
1-28-5	2,4-Dinitrophenol	34	78	16	16	%REC	SW-846 8270
121-14-2	2,4-Dinitrotoluene	51	77	16	16	%REC	SW-846 8270
606-20-2	2,6-Dinitrotoluene	51	76	16	16	%REC	SW-846 8270
78-93-3	2-Butanone	0	152 1	15	15	%REC	SW-846 8260
91-58-7	2-Chloronaphthalene	48	70	16	16	%REC	SW-846 8270
95-57-8	2-Chlorophenol	47	72	16	16	%REC	SW-846 8270
91-57-6	2-Methylnaphthalene	45	70	16	16	%REC	SW-846 8270
95-48-7	2-Methylphenol	46	73	16	16	%REC	SW-846 8270
88-74-4	2-Nitroaniline	53	72	16	16	%REC	SW-846 8270
91-94-1	3,3 -Dichlorobenzidine	40	101	16	16	%REC	SW-846 8270
534-52-1	4,6-Dinitro-2-methylphenol	36	74	16	16	%REC	SW-846 8270
106-47-8	4-Chloroaniline	32	65	16	16	%REC	SW-846 8270
108-10-1	4-Methyl-2-pentanone	0	97 84	15	15	%REC	SW-846 8260
106-44-5	4-Methylphenol	48	73	16	16	%REC	SW-846 8270
100-02-7	4-Nitrophenol	46	91	16	16	%REC	SW-846 8270
83-32-9	Acenaphthene	49	70	16	16	%REC	SW-846 8270
67-64-1	Acetone	0	165	15	15	%REC	SW-846 8260
7429-90-5	Aluminum	0	3730	9	9	%REC	SW-846 6010
120-12-7	Anthracene	52	72	16	16	%REC	SW-846 8270
7440-36-0	Antimony	33	69	9	9	%REC	SW-846 6010
12674-11-2	Aroclor-1016	66	116	10	10	%REC	SW-846 8082
1096-82-5	Aroclor-1260	59	111	10	10	%REC	SW-846 8082
7440-38-2	Arsenic	84	96	9	9	%REC	SW-846 6010

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Table 18
Sample Matrix Spike Evaluation

CAS No.	Analyte	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
7440-39-3	Barium	78	107	9	9	%REC	SW-846 6010
71-43-2	Benzene	69 21	102	15	15	%REC	SW-846 8260
56-55-3	Benzo(a)anthracene	48	73	16	16	%REC	SW-846 8270
50-32-8	Benzo(a)pyrene	49	75	16	16	%REC	SW-846 8270
205-99-2	Benzo(b)fluoranthene	45	78	16	16	%REC	SW-846 8270
207-08-9	Benzo(k)fluoranthene	49	76	16	16	%REC	SW-846 8270
65-85-0	Benzoic Acid	1 7	62	16	16	%REC	SW-846 8270
100-51-6	Benzyl Alcohol	48	76	16	16	%REC	SW-846 8270
7440-41-7	Beryllium	89	122	9	9	%REC	SW-846 6010
111-44-4	bis(2-Chloroethyl)ether	40	123	16	16	%REC	SW-846 8270
39638-32-9	bis(2-Chloroisopropyl)ether	45	76	16	16	%REC	SW-846 8270
117-81-7	bis(2-Ethylhexyl)phthalate	50	77	16	16	%REC	SW-846 8270
75-27-4	Bromodichloromethane	64 91	105	15	15	%REC	SW-846 8260
75-25-2	Bromoform	61 18	104 5	15	15	%REC	SW-846 8260
74-83-9	Bromomethane	59 57	179 7	15	15	%REC	SW-846 8260
85-68-7	Butylbenzylphthalate	50	79	16	16	%REC	SW-846 8270
7440-43-9	Cadmium	56	101	9	9	%REC	SW-846 6010
75-15-0	Carbon Disulfide	57 52	105 9	15	15	%REC	SW-846 8260
56-23-5	Carbon Tetrachloride	62 59	109	15	15	%REC	SW-846 8260
108-90-7	Chlorobenzene	52 44	104 7	15	15	%REC	SW-846 8260
75-00-3	Chloroethane	56 43	126 6	15	15	%REC	SW-846 8260
67-66-3	Chloroform	62 66	102	15	15	%REC	SW-846 8260
74-87-3	Chloromethane	48 98	161 5	15	15	%REC	SW-846 8260
7440-47-3	Chromium	90	273	9	9	%REC	SW-846 6010
218-01-9	Chrysene	47	72	16	16	%REC	SW-846 8270
10061-01-5	cis-1,3-Dichloropropene	74 38	125 8	15	15	%REC	SW-846 8260
7440-48-4	Cobalt	84	97	9	9	%REC	SW-846 6010
7440-50-8	Copper	65	113	9	9	%REC	SW-846 6010
84-74-2	Di-n-butylphthalate	0	74	16	16	%REC	SW-846 8270
117-84-0	Di-n-octylphthalate	51	71	16	16	%REC	SW-846 8270
53-70-3	Dibenz(a h)anthracene	44	72	16	16	%REC	SW-846 8270
132-64 9	Dibenzofuran	50	73	16	16	%REC	SW-846 8270
124-48-1	Dibromochloromethane	68 56	102	15	15	%REC	SW-846 8260
84-66-2	Diethylphthalate	52	78	16	16	%REC	SW-846 8270
131-11-3	Dimethylphthalate	51	74	16	16	%REC	SW-846 8270
100-41 4	Ethylbenzene	53 36	100 7	15	15	%REC	SW-846 8260
206-44-0	Fluoranthene	48	87	16	16	%REC	SW-846 8270
86-73-7	Fluorene	49	71	16	16	%REC	SW-846 8270
118-74-1	Hexachlorobenzene	49	74	16	16	%REC	SW-846 8270

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Table 18
Sample Matrix Spike Evaluation

CAS No.	Analyte	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
87-68-3	Hexachlorobutadiene	49 52	82 93	15	15	%REC	SW-846 8260
87-68-3	Hexachlorobutadiene	43	68	16	16	%REC	SW-846 8270
77-47-4	Hexachlorocyclopentadiene	4 8	63	16	16	%REC	SW-846 8270
67-72-1	Hexachloroethane	44	71	16	16	%REC	SW-846 8270
193-39-5	Indeno(1,2,3-cd)pyrene	44	72	16	16	%REC	SW-846 8270
7439-89-6	Iron	0	2270	9	9	%REC	SW-846 6010
78-59-1	Isophorone	61	96	16	16	%REC	SW-846 8270
7439-92-1	Lead	85	103	9	9	%REC	SW-846 6010
7439-93-2	Lithium	89	104	9	9	%REC	SW-846 6010
7439-96-5	Manganese	0	124	9	9	%REC	SW-846 6010
7439-97-6	Mercury	22	110	8	8	%REC	SW-846 6010
75-09-2	Methylene chloride	71 69	110 3	15	15	%REC	SW-846 8260
7439-98-7	Molybdenum	79	90	9	9	%REC	SW-846 6010
86-30-6	n-Nitrosodiphenylamine	56	90	16	16	%REC	SW-846 8270
621-64-7	n-Nitrosodipropylamine	44	74	16	16	%REC	SW-846 8270
91-20-3	Naphthalene	0	86 28	15	15	%REC	SW-846 8260
1-20-3	Naphthalene	45	69	16	16	%REC	SW-846 8270
7440-02-0	Nickel	85	129	9	9	%REC	SW-846 6010
14797-55-8	Nitrate	87	97	4	4	%REC	SW9056 OR E300 0 PREP E300 0
98-95-3	Nitrobenzene	50	77	16	16	%REC	SW-846 8270
87-86-5	Pentachlorophenol	17	63	16	16	%REC	SW-846 8270
108-95-2	Phenol	49	76	16	16	%REC	SW-846 8270
129-00-0	Pyrene	44	83	16	16	%REC	SW-846 8270
7782-49-2	Selenium	82	97	9	9	%REC	SW-846 6010
7440-22-4	Silver	77	165	9	9	%REC	SW-846 6010
127-18-4	Tetrachloroethene	60 17	92 21	11	11	%REC	SW-846 8260
7440-31-5	Tin	82	101	13	13	%REC	SW-846 6010
108-88-3	Toluene	63 59	91 78	11	11	%REC	SW-846 8260
7440-24-6	Strontium	84	109	9	9	%REC	SW-846 6010
100-42-5	Styrene	55 98	102	15	15	%REC	SW-846 8260
127-18-4	Tetrachloroethene	60 17	100 5	15	15	%REC	SW-846 8260
7440-31-5	Tin	81	91	9	9	%REC	SW-846 6010
108-88-3	Toluene	63 59	95 12	15	15	%REC	SW-846 8260
10061-02-6	trans-1 3-Dichloropropene	65 02	95 19	15	15	%REC	SW-846 8260
79-01-6	Trichloroethene	65 84	230	15	15	%REC	SW-846 8260
11-09-7	Uranium Total	87	100	9	9	%REC	SW-846 6010
7440-62-2	Vanadium	77	117	9	9	%REC	SW-846 6010
75-01-4	Vinyl chloride	44 8	119 3	15	15	%REC	SW-846 8260
1330-20-7	Xylene	57 92	103	15	15	%REC	SW-846 8260

Table 18
Sample Matrix Spike Evaluation

CAS No.	Analyte	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
7440-66-6	Zinc	62	113	9	9	%REC	SW-846 6010

Table 19
Sample Matrix Spike Duplicate Evaluation

Analyte	Number of Sample Pairs	Number of Laboratory Batches	MS/MSD RPD (%)
1,1,1-Trichloroethane	15	15	23 94
1,1,2,2-Tetrachloroethane	14	14	37 23
1,1,2-Trichloroethane	15	15	24 21
1,1-Dichloroethane	15	15	24 17
1,1-Dichloroethene	2	2	4 21
1,1-Dichloroethene	15	15	32 31
1,2,4-Trichlorobenzene	16	16	34 34
1,2,4-Trichlorobenzene	15	15	35 68
1,2-Dichlorobenzene	15	15	42 69
1,2-Dichloroethane	2	2	3 59
1,2-Dichloroethane	15	15	22 50
1,2-Dichloropropane	15	15	25 88
1,4-Dichlorobenzene	2	2	6 90
1,4-Dichlorobenzene	15	15	44 07
2,4,5-Trichlorophenol	16	16	40 82
2,4,6-Trichlorophenol	16	16	35 29
2,4-Dichlorophenol	16	16	46 46
2,4-Dimethylphenol	16	16	40 00
2,4-Dinitrophenol	16	16	66 67
2,4-Dinitrotoluene	16	16	41 27
2,6-Dinitrotoluene	16	16	41 94
2-Butanone	14	14	19 83
2-Butanone	2	2	16 74
2-Chloronaphthalene	16	16	30 93
2-Chlorophenol	16	16	37 62
2-Methylnaphthalene	16	16	24 76
2-Methylphenol	16	16	36 73
2-Nitroaniline	16	16	29 06
3,3'-Dichlorobenzidine	16	16	35 56
4,6-Dinitro-2-methylphenol	16	16	50 85
4-Chloroaniline	16	16	44 16
4-Methyl-2-pentanone	14	14	24 71
4-Methylphenol	16	16	37 62
4-Nitrophenol	16	16	30 77
Acenaphthene	16	16	32 65
Acetone	14	14	44 55
Aluminum	8	8	107 08
Anthracene	16	16	33 66

Table 19
Sample Matrix Spike Duplicate Evaluation

Analyte	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
Antimony	9	9	19 72
Aroclor-1016	10	10	53 33
Aroclor-1260	10	10	26 09
Arsenic	9	9	13 33
Barium	9	9	16 47
Benzene	15	15	23 31
Benzene	2	2	2 30
Benzo(a)anthracene	16	16	46 51
Benzo(a)pyrene	16	16	36 36
Benzo(b)fluoranthene	16	16	32 06
Benzo(k)fluoranthene	16	16	53 66
Benzoic Acid	16	16	192 16
Benzyl Alcohol	16	16	34 62
Beryllium	9	9	26 98
bis(2-Chloroethyl)ether	16	16	35 29
bis(2-Chloroisopropyl)ether	16	16	35 05
bis(2-Ethylhexyl)phthalate	16	16	52 43
Bromodichloromethane	15	15	27 61
Bromoform	15	15	35 39
Bromomethane	15	15	48 72
Butylbenzylphthalate	16	16	44 00
Cadmium	9	9	32 84
Carbon Disulfide	15	15	33 99
Carbon Tetrachloride	15	15	21 94
Carbon Tetrachloride	2	2	3 28
Chlorobenzene	2	2	3 88
Chlorobenzene	15	15	38 27
Chloroethane	15	15	64 91
Chloroform	2	2	2 02
Chloroform	15	15	24 28
Chloromethane	15	15	69 80
Chrysene	16	16	37 50
cis-1,3-Dichloropropene	15	15	25 97
Cobalt	9	9	14 36
Copper	9	9	57 81
Di-n-butylphthalate	15	15	39 29
Di-n-octylphthalate	16	16	54 55
Dibenz(a,h)anthracene	16	16	40 00
Dibenzofuran	16	16	32 00

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Table 19
Sample Matrix Spike Duplicate Evaluation

Analyte	Number of Sample Pairs	Number of Laboratory Batches	MS/MSD RPD (%)
Dibromochloromethane	15	15	24 59
Diethylphthalate	16	16	37 84
Dimethylphthalate	16	16	39 25
Ethylbenzene	15	15	37 68
Fluoranthene	16	16	33 04
Fluorene	16	16	28 57
Hexachlorobenzene	16	16	26 67
Hexachlorobutadiene	15	15	23 32
Hexachlorobutadiene	16	16	38 30
Hexachlorocyclopentadiene	16	16	27 03
Hexachloroethane	16	16	35 05
Indeno(1,2,3-cd)pyrene	16	16	37 50
Iron	4	4	195 30
Isophorone	16	16	39 37
Lead	9	9	22 61
Lithium	9	9	5 08
Manganese	7	7	108 84
Mercury	8	8	58 06
Methylene chloride	15	15	38 02
Molybdenum	9	9	10 29
n-Nitrosodiphenylamine	16	16	34 59
n-Nitrosodipropylamine	16	16	30 30
Naphthalene	13	13	35 07
Naphthalene	16	16	33 01
Nickel	9	9	32 43
Nitrate	4	4	4 71
Nitrobenzene	16	16	35 29
Pentachlorophenol	16	16	36 89
Phenol	16	16	37 62
Pyrene	16	16	37 97
Selenium	9	9	14 69
Silver	8	8	19 88
Strontium	9	9	40 88
Styrene	15	15	40 57
Tetrachloroethene	15	15	23 50
Tetrachloroethene	2	2	3 35
Tin	9	9	11 63
Toluene	15	15	24 91
trans-1,3-Dichloropropene	15	15	25 57

Table 19
Sample Matrix Spike Duplicate Evaluation

Analyte	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
Trichloroethene	15	15	22 19
Trichloroethene	2	2	3 28
Uranium, Total	9	9	10 64
Vanadium	9	9	53 33
Vinyl chloride	15	15	60 48
Vinyl chloride	2	2	6 37
Xylene	15	15	39 97
Zinc	9	9	34 67

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Table 20
Field Duplicate Sample Frequency

Test Method	Sample Code	Number of Samples	% Duplicate Samples
ALPHA SPEC	REAL	33	6 06%
ALPHA SPEC	DUP	2	
GAMMA SPECTROSCOPY	REAL	181	4 42%
GAMMA SPECTROSCOPY	DUP	8	
SW-846 6010	REAL	36	8 33%
SW-846 6010	DUP	3	
SW-846 6200	REAL	108	6 48%
SW-846 6200	DUP	7	
SW-846 8082	REAL	33	9 09%
SW-846 8082	DUP	3	
SW-846 8260	REAL	48	6 25%
SW-846 8260	DUP	3	
SW-846 8270	REAL	76	6 58%
SW-846 8270	DUP	5	

Table 21
RPD Evaluation

Analyte	Max of RPD %
1,2,4-Trichlorobenzene	197 07
2,4,5-Trichlorophenol	3 82
2,4,6-Trichlorophenol	3 82
2,4-Dichlorophenol	3 82
2,4-Dimethylphenol	3 82
2,4-Dinitrophenol	5 13
2,4-Dinitrotoluene	2 74
2,6-Dinitrotoluene	2 74
2-Chloronaphthalene	3 82
2-Chlorophenol	3 82
2-Methylnaphthalene	3 82
2-Methylphenol	3 82
2-Nitroaniline	5 13
3,3'-Dichlorobenzidine	6 45
4,6-Dinitro-2-methylphenol	5 13
4-Chloroaniline	6 45
4-Methyl-2-pentanone	0 00
4-Methylphenol	3 82
4-Nitrophenol	5 13
Acenaphthene	5 13
Aluminum	46 70
Americium-241	106 71
Americium-241	11 26
Anthracene	5 13
Aroclor-1221	130 10
Aroclor-1232	130 10
Aroclor-1242	130 10
Aroclor-1254	130 10
Aroclor-1260	130 10
Arsenic	33 58
Barium	131 43
Barium	122 50
Benzene	0 00
Benzo(a)anthracene	16 67
Benzo(a)pyrene	8 33
Benzo(b)fluoranthene	14 63
Benzo(k)fluoranthene	6 06
Benzoic Acid	5 13
Benzyl Alcohol	6 45
Beryllium	56 41
bis(2-Chloroethyl)ether	3 82
bis(2-Chloroisopropyl)ether	3 82
bis(2-Ethylhexyl)phthalate	3 82

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Table 21
RPD Evaluation

Analyte	Max of RPD %
Bromodichloromethane	0 00
Bromoform	0 00
Butylbenzylphthalate	3 82
Cadmium	82 35
Carbon Disulfide	0 00
Chlorobenzene	0 00
Chloroform	0 00
Chromium	40 96
Chrysene	44 44
cis-1,3-Dichloropropene	0 00
Cobalt	39 13
Copper	132 52
Di-n-butylphthalate	3 82
Di-n-octylphthalate	3 82
Dibenz(a,h)anthracene	46 15
Dibenzofuran	3 82
Dibromochloromethane	0 00
Diethylphthalate	3 82
Dimethylphthalate	3 82
Fluoranthene	30 43
Fluorene	3 82
Copper	127 55
Hexachlorobenzene	3 82
Hexachlorobutadiene	3 82
Hexachlorocyclopentadiene	3 82
Hexachloroethane	3 82
Indeno(1,2,3-cd)pyrene	3 82
Iron	51 20
Isophorone	3 82
Lead	41 86
Lithium	53 33
Manganese	26 67
Mercury	160 60
n-Nitrosodiphenylamine	3 82
n-Nitrosodipropylamine	3 82
Naphthalene	197 07
Nickel	33 33
Nitrobenzene	3 82
Pentachlorophenol	5 13
Phenol	3 82
Plutonium-239/240	140 78
Pyrene	48 10
Silver	25 00
Strontium	58 12

Table 21
RPD Evaluation

Analyte	Max of RPD %
Styrene	0 00
Tin	5 56
Toluene	0 00
Uranium-234	6 68
Uranium-234	5 53
Uranium-238	19 83
Uranium-238	16 06
Vanadium	120 74
Vanadium	109 00
Zinc	84 11
Zinc	40 98

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Table 22
Validation and Verification Summary

Validation Qualifier Code	Total of CAS Number	Alpha Spec	Gamma Spectroscopy	SW-846 6010	SW-846 6200	SW-846 8082	SW-846 8260	SW-846 8260B	SW9056 OR E300_0 Prep E300_0
No V&V	140	5	123	0	0	0	0	2	0
1	421	0	410	0	0	0	0	9	2
J	185	5	0	129	40	1	1	9	0
J1	155	0	0	58	85	0	6	0	6
R	1	0	0	1	0	0	0	0	0
U	1	0	0	0	0	0	1	0	0
V	2983	135	122	441	563	111	474	1125	0
V1	5565	20	410	151	1191	112	1028	2641	0
JB	16	0	0	0	0	0	15	1	0
JB1	28	0	0	0	0	0	28	0	0
UJ	249	0	0	27	45	0	13	163	1
UJ1	93	0	0	21	20	7	32	2	11
Total	9843	165	1065	828	1944	231	1598	3952	20
Validated	3435	140	122	598	648	112	504	1298	1
% Validated	34 90%	84 85%	11 46%	72 22%	33 33%	48 48%	31 54%	32 84%	5 00%
Verified	6262	20	820	230	1296	119	1094	2652	19
% Verified	63 62%	12 12%	77 00%	27 78%	66 67%	51 52%	68 46%	67 11%	95 00%
Rejected	1	0	0	1	0	0	0	0	0
% Rejected	0 01%	0 00%	0 00%	0 12%	0 00%	0 00%	0 00%	0 00%	0 00%

KEY
1, V1 – Verified
J, J1 – Estimated
B – In blank
UJ, UJ1 - Estimated detection limit
V – Validated
R – Rejected

Table 23
Sensitivity Summary

Location Code	Test Method Name	Analyte	Detection Limit	Result	Result Unit	Lab Result Qualifier Codes	Wildlife Refuge Worker AL	Sensitive
CH48-005	GAMMA SPECTROSCOPY	Uranium-235	9 8	0 023	pCi/g	U	8	Yes
CD48-000	GAMMA SPECTROSCOPY	Uranium-235	8 2	0 066	pCi/g	U	8	Yes

APPENDICES

Appendix A – Correspondence

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time December 17, 2002/ 3 00 pm

Site Contact(s) Hanna Marschall, Reginald Tyler
Phone (303) 966-4085 (303) 966-5927

Regulatory Contact Carl Spreng
Phone (303) 692-3358

Agency CDPHE

Purpose of Contact: Permission to re-grade Building 335

Discussion
While grading at the site of the former building 335, soil staining was noted at the southeast corner of the slab An additional sample was collected for volatile organic compounds (VOC) and metals in the soil to determine if soil contamination above action levels was present A review of the sample data indicates that all constituents are below Tier I and Tier 2 action levels with the exception of an arsenic concentration of 19 ppm, slightly exceeding the arsenic background value However, this value is within the range of arsenic concentrations identified at other locations even though it is slightly above the official background value

After review of this data and based on similar arsenic concentrations seen at several other locations that are accepted to be within the arsenic background range, both Reg Tyler, DOE and Carl Spreng, CDPHE agreed that the B335 area can be regraded

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Contact Record Prepared By Hanna Z Marschall

Required Distribution

S Bell, RFFO
L Brooks, K-H ESS
L Butler, K-H RISS
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
J Legare, RFFO
D Kruchek, CDP
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
K North, K-H ESS
T Rehder, USEPA
D Shelton, K-H
E Pottorff, CDPHE
R Tyler, RFFO

Additional Distribution
(choose names as applicable)

M Broussard, K-H RISS
S Serreze, K-H RISS
G Kleeman, USEPA
G Kelly, K-H RISS
L Norland, K-H RISS
A Primrose, K-H RISS
D Foss, K-H RISS
C Freiboth, K-H RISS
H Marschall, K-H RISS
N Castaneda, RFFO
S Surovchak, RFFO

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time November 26, 2003/1 00 pm

Site Contact(s) Hanna Marschall,
Phone (303) 966-4916

Regulatory Contact David Kruchek
Phone (303) 692-3328

Agency CDPHE

Purpose of Contact: Permission to backfill excavation at Building 774

Discussion
Four (4) confirmation samples were collected after the contaminated soil was removed at Building 774 All analytical results from sampling during the project have now been reviewed and the confirmation samples verify that the remaining soils are below the action level of 1 nCi/g The highest result was 93 2 pCi/g Plutonium-239/240 The results meet the RFCA Attachment 5, Section 5 3, paragraph A, Subsurface Soil Risk Screen, and therefore, the project has approval to backfill the excavation

FIDLER surveys were conducted at numerous locations within the excavation to assist with remediation In addition to the confirmation samples, one (1) characterization soil sample was collected under an area on the west wall of B774 where there was a survey result of 15000 alpha direct Gamma spec results were 31 5 pCi/g American-241 Another (2) characterization sample(s) were collected in a random location of the excavated area where there was not elevated FIDLER readings (survey results N/A) after remediation There was a duplicate sample taken at this location and the Gamma Spec results were 6 57 pCi/g and 4 33 pCi/g Americium-241respectively This confirms that the FIDLER is useful for directing remedial actions where Americium contamination is present

The area east of the excavated area in the location of the former cargo container was checked with a FIDLER for potential contamination Survey results in this area were less than 20 dpm/100cm swipe and less than 4000 cpm direct alpha

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Contact Record Prepared By Hanna Z Marschall

Required Distribution

S Bell, RFFO
L Brooks, K-H ESS
L Butler, K-H RISS
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
J Legare, RFFO
D Kruchek, CDPHE
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
K North, K-H ESS
T Rehder, USEPA
D Shelton, K-H
C Spreng, CDPHE
R Tyler, RFFO

Additional Distribution
(choose names as applicable)
M Broussard, K-H RISS
C Freiboth, K-H RISS
G Kleeman, USEPA
S Serreze, K-H RISS
L Norland, K-H RISS
A Primrose, K-H RISS
D Onyskiw, CDPHE
D Foss, K-H RISS
G Kelly, K-H RISS

H Marschall, K-H RISS
N Castaneda, RFFO
S Surovchak, RFFO

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time	November 15, 2002/1700
Site Contact(s) **Phone**	Marla Broussard 303-966-6007
Regulatory Contacts **Phones**	Dave Kruchek 303-692-3328
Agency.	Colorado Department of Public Health and Environment
Purpose of Contact	IASAP Addendum #IA-03-01 Comment Resolution

Discussion

The following changes will be made by RFETS to IHSS Group 700-4, Section 4 0 of IASAP Addendum #IA-03-01

(1) The sump in Building 771, Room 142 will be located on Figure 9 All other sumps/sinks will be relocated in the field
(2) VOCs will be added to the analyte list for deep sumps only
(3) Samples will be collected from the 0 0-0 5, 0 5 – 2 5 and 2 5 – 4 5 interval at the following locations CF48-012, CF48-002, CF48 –001, and CF48-011

Additionally, as discussed, the following text will be added to Section 1 2 "Statistical confidence in UBC and under pad characterization sample sets at >90% will be maintained with the currently suggested grid-spacing of 72 feet Use of the appropriate statistical models, such as EPA QA/G-4, lognormal, or nonparametric methods (e g , the MARSSIM, EPA et al , 1997), will corroborate, with better than 90% confidence, that enough samples were acquired to draw final project conclusions "

Contact Record Prepared By Susan Serreze

Required Distribution

S Bell, RFFO
L Brooks, K-H ESS
L Butler, K-H RISS
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
J Legare, RFFO
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
K North, K-H ESS
T Rehder, USEPA
D Shelton, K-H
C Spreng, CDPHE

Additional Distribution (choose names as applicable)

M Broussard, K-H RISS
G Kleeman, USEPA
D Kruchek, CDPHE
L Norland, K-H RISS
A Primrose, K-H RISS
S Serreze, K-H RISS
D Strand, K-H RISS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time November 4, 2003/ 11 00 am

Site Contact(s) Hanna Marschall, Annette Primrose
Phone (303) 966-4916, (303) 966-4385

Regulatory Contact David Kruchek, Denise Onyskiw
Phone (303) 692-3328 (303) 966-6687

Agency CDPHE

Purpose of Contact Location of additional soil samples at Building 774

Discussion
As discussed with and agreed to by David Kruchek and Denise Onyskiw, confirmation samples will be collected after the contaminated soil is removed as follows
(1) from the soils directly underlying former tank T-66,
(2) from the soils directly underlying or the former tank T-67,
(3) & (4) will be located where elevated FIDLER readings are present after remediation,

The confirmation samples will be analyzed by Alpha Spectroscopy for rads, metals (Be included), SVOCs and VOCs If the confirmation sampling results exceed the action level, there will be additional remediation and confirmation samples required

Additional characterization samples will be collected along the west wall of B774 where there are higher FIDLER readings and another will be located in a part of the excavated area where there are not elevated FIDLER readings after remediation

The area east of the excavated area in the location of the former cargo container will be checked with a FIDLER for potential contamination

---

Contact Record Prepared By Hanna Z Marschall

Required Distribution

S Bell, RFFO
L Brooks, K-H ESS
L Butler, K-H RISS
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
J Legare, RFFO
D Kruchek, CDPHE
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
K North, K-H ESS
T Rehder, USEPA
D Shelton, K-H
C Spreng, CDPHE
R Tyler, RFFO

Additional Distribution
(choose names as applicable)

M Broussard, K-H RISS
C Freiboth, K-H RISS
G Kleeman, USEPA
S Serreze, K-H RISS
L Norland, K-H RISS
A Primrose, K-H RISS
D Onyskiw, CDPHE
D Foss, K-H RISS
G Kelly, K-H RISS
H Marschall, K-H RISS

N Castaneda, RFFO
S Surovchak, RFFO

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time September 11, 2003/ 11 05am

Site Contact(s) Mark A Ruthven
Phone 303-966-2955

Regulatory Contact Dave Kruchek
Phone 303-692-3328

Agency CDPHE

Purpose of Contact Samples to be taken under T-14 and T-16 in IHSS Group 700-4

Discussion
Confirmed during a phone conversation, three additional grab samples will be taken at the former location of Tanks T-14 and T-16 outside Building 774 Radionuclides, metals, VOCs, and SVOCs will be analyzed If evidence of a spill is present, samples may be relocated to sample the suspect areas

Contact Record Prepared By Mark A Ruthven

Required Distribution

S Bell, RFFO
J Berardini, K-H
L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
G Carnival, K-H RISS
N Castaneda, RFFO
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
M Keating, K-H RISS
G Kleeman, USEPA
D Kruchek, CDPHE
D Mayo, K-H RISS
R McCalister, DOE
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
E Pottorff, CDPHE
A Primrose, K-H RISS
T Rehder, USEPA
S Serreze, RISS
D Shelton, K-H
C Spreng, CDPHE
S Surovchak, RFFO
K Wiemelt, K-H RISS
C Zahm, K-H

Additional Distribution
(choose names as applicable)

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time	October 28, 2003/ 7 15 am
Site Contact(s)	Annette Primrose
Phone	303 966-4385
Regulatory Contact	David Kruchek
Phone	303 692-3328
Agency	CDPHE

Purpose of Contact Accelerated notification of remedial action at IHSS group 700-4

Discussion

Process waste tanks 66, 67 and 68 on the east side of Building 774 were recently removed as part of building decommissioning activities The area was roughly regraded after tank removal to leave the area in a safer configuration and approximately two feet of previously excavated soil was replaced over the subtank soils

Samples were collected from the soils directly underlying the tanks with the following results

- Tank 68 – Americium activity was not detected
- Tank 67 – Americium activity was 782 pCi/g in subtank soils Americium activity in the overlying fill material was 8 47 pCi/g
- Tank 66 – Americium activity was 6 1 nCi/g in the subtank soils Americium activity in the overlying fill material was 6 15 pCi/g

At final grade, the area will be 8 to 12 feet below grade However, as stated in RFCA Attachment 5, once an excavation is started, the principal of ALARA will be applied by removing all soil contamination to less than 1 nCi/g Therefore, a remedial action is planned for the Tank 66 and part of the Tank 67 area, including the higher activity areas noted during the radiological survey of the area The excavation is currently open and an immediate approach is required for this area

For this action, sufficient contaminated soil will be removed and dispositioned as waste to ensure that the remaining soils are below the action level of 1 nCi/g Confirmation samples will be collected to verify that the action level of 1 nCi/g was met

The extent of the remedial action will be documented in a closeout report for IHSS Group 700-4

Contact Record Prepared By Annette Primrose

Required Distribution

S Bell, RFFO
J Berardini, K-H
L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
G Carnival, K-H RISS
N Castaneda, RFFO
C Deck, K-H Legal
R DiSalvo, RFFO
S Gunderson, CDPHE
M Keating, K-H RISS
G Kleeman, USEPA
D Kruchek, CDPHE
D Mayo, K-H RISS
R McCalister, DOE
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
E Pottorff, CDPHE
A Primrose, K-H RISS
T Rehder, USEPA
S Serreze RISS
D Shelton, K-H
C Spreng, CDPHE
S Surovchak, RFFO
K Wiemelt, K-H RISS
C Zahm, K-H

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time· October 16, 2003

Site Contact(s)· Susan Serreze
Phone: 303-966-2677

Regulatory Contact: Elizabeth Pottorff, Dave Kruchek, Harlen Ainscough
Phone: 303-692-3300

Agency CDPHE

Purpose of Contact: Consultative Process Meeting– Meeting Notes

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Discussion

October, 16 2003 Comment Resolution Meetings
For

IHSS 149.2 Boundary Change
IHSS 169 and 132 HRR Issues
IHSS Group 000-2 ER RSOP Notification
IHSS Group 400-3 Field Completion
IHSS Group 700-7 IASAP Addendum and ER RSOP Notification
IHSSs 150.6 and 150.8 NFAA
IHSS Group 700-5 IASAP Addendum and ER RSOP Notification
IHSS Group 700-6 IASAP Addendum and ER RSOP Notification
IHSS Group 700-4 Update

A meeting was held on October 16, 2003 to discuss several topics including IHSS Group 700-7 IASAP Addendum and Notification, IHSS Group 800-1 Notification, IHSS Group NE/NW Data Summary Report, IHSS Group 900-11, IHSS SW-1602 Notification, ER RSOP Modification and IHSS Group 000-2

I Attendees

CDPHE Dave Kruchek, Carl Spreng
DOE Norma Castaneda
K-H Marcella Broussard,
K-H Team Mark Ruthven, Susan Serreze

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II Report Status

Upcoming reports include the IHSS Group 100-1 IASAP Addendum, IHSS Group 400-2 IASAP Addendum and ER RSOP Notification, IHSS Group 600-3 IASAP Addendum and ER RSOP Notification, and IHSS Group 900-12 BZSAP Addendum

III Issues

No sitewide issues were discussed

IV Specific Comments

IHSS 149.2 Boundary Change

The following resolutions were agreed to

1 IHSS 149 2 will be addressed as part of IHSS Group 700-7

2 The IHSS 149 2 boundary will be shifted south to cover OPWL Lines P-36, 37, and 38

IHSS 169 HRR Administration

The following resolutions were agreed to

1 IHSS 169 will be re-proposed as an NFAA

IHSS 132 HRR Administration

The following resolutions were agreed to

1 IHSS 132 will be addressed as part of 700-3 Sampling locations will be documented through a contact record when fieldwork starts

2 If the tanks are not removed, samples will be collected from around the tanks

IHSS Group 000-2 Notification

CDPHE comments on the IHSS Group 000-2 Notification were discussed and the following resolutions were agreed to

1 Tank 39 and the associated line shown on the maps will be changed to indicate that this line is not an OPWL

2 The TBD designation at Buildings 707 and 883 will be removed from the maps

3 OPWLs that are found not to exist will be hatched on the maps

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4 Specific OPWL removals will be discussed with the LRA and documented through contact records

IHSS Group 400-3 Field Completion

Characterization data from IHSS Group 400-3 was presented Lead concentrations are greater than WRW ALs at one location in the northern part of Building 444 and manganese concentrations are greater than WRW ALs at one location west of Building 444 Lead, arsenic, and beryllium exceed ecological receptor ALs at several locations CDPHE requested that RFETS staff either further evaluate or excavate the WRW AL exceedances

IHSS Group 700-7 IASAP Addendum and ER RSOP Notification

1 The IHSS Group 700-7 IASAP Addendum and ER RSOP Notification were delivered to CDPHE for verification and approval

IHSSs 150.6 and 150.8 NFAAs

The revised NFAA proposal for IHSSs 150 6 and 150 8 was delivered to CDPHE for approval

IHSS Group 700-5 IASAP Addendum and ER RSOP Notification

The IHSS Group 700-5 IASAP Addendum and ER RSOP Notification were delivered to the regulatory agencies for verification and approval

The following resolutions were agreed to

1 Samples from the eight locations around the building will be sent to an offsite laboratory so that Be will be measured

IHSS Group 700-6 IASAP Addendum and ER RSOP Notification
The draft IHSS Group 700-6 IASAP Addendum and ER RSOP Notification were delivered to the regulatory agencies for review

IHSS Group 700-4 Update

The CERCLA tanks were removed and confirmation samples were collected

IV Meetings

The next meeting is scheduled for Wednesday, October 29, 2003, from 11 00 AM to 1 00 PM

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time. June 12, 2003

Site Contact(s): Susan Serreze
Phone: 303-966-2677

Regulatory Contact: Elizabeth Pottorff, Dave Kruchek, Harlen Ainscough, Carl Spreng
Phone: 303-692-3300

Agency: CDPHE

Purpose of Contact Consultative Process Meeting– Meeting Notes

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Discussion

June 11 and 12, 2003 Comment Resolution Meetings
For
IHSS Group 700-4 Field Completion
IHSS Group 600-1 Closeout Report
IHSS Group 300-2 Draft IASAP Addendum
IHSS Group 000-1 Closeout Report

Meetings were held on June 11 and 12, 2003 to discuss several topics including the IHSS Group 600-1 Closeout, IHSS Group 300-2 Draft IASAP Addendum, and IHSS Group 700-4 Field Completion

I Attendees

CDPHE Dave Kruchek, Elizabeth Pottorff, Harlen Ainscough, Carl Spreng
DOE Russ McCallister
K-H Marcella Broussard
K-H Team Gerry Kelly, Susan Serreze

II Report Status

Upcoming documents were briefly discussed and included upcoming Addenda for IHSS Group 400-6, 600-4, OPWL, Closeouts and Data Summaries for 700-4, 900-3, and NE/NW, and field completion concurrence for 300-3, and 300-4

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III Issues

There were no program-wide issues

IV Specific Comments

IHSS Group 700-4 Field Completion

1 Based on the UBC 774 alpha spectroscopy data and the lack of an effective pathway for the movement of plutonium through the subsurface there is not an exceedance that would result in an ER action

2 The preliminary data maps were updated to show OPWL, tanks, other features, and all sampling locations and presented to CDPHE

3 Alpha spectroscopy data for UBC 774 was presented The americium/plutonium ratio is different than the 1 8 08 ratio used to estimate plutonium activity from HPGe results

4 At IHSS 163 1 benzo(a)pyrene was elevated, but not greater than WRW ALs These elevated concentrations will not result in an action

5 At IHSS 150 1 arsenic concentrations appear to decrease away from the building Elevated concentrations will not result in an action

IHSS Group 600-1 Closeout Report

The following resolutions were agreed to

1 Add a statement regarding how validation of other records affects IHSS Group 600-1 data quality

IHSS Group 300-2 IASAP Addendum

The following resolutions were agreed to

1 Additional biased samples in response to CDPHE comments were added to the sampling plan

2 H Ainscough will meet with D Reeder to look at specific B331 features

HSS Group 000-1 Closeout Report

1 The reason why hot spots were removed at the SEP will be added to the text

IV Meetings

The next meeting is scheduled for Thursday, June 26, 2003, from 10 30 AM to 12 00 PM

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Distribution:

H Ainscough, CDPHE
S Gunderson, CDPHE
D Kruchek, CDPHE
E Pottorff, CDPHE
C Spreng, CDPHE
G Kleeman, USEPA
N Castenada, RFFO
R McCallister, RFFO

L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
R Davis, K-H RISS
C Deck, K-H Legal
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
D Shelton, K-H
K Wiemelt, K-H RISS

W Chromec, K-H Team
K Griggs, K-H Team
G Kelly, K-H Team
B Koehler, K-H Team
S Luker, K-H Team
G Pudlick, K-H Team
D Reeder, K-H Team
M Ruthven, K-H Team
S Serreze, K-H Team
E Woodland, K-H Team
Administrative Record
ER Meeting Minutes

Serreze, Susan

From	David Kruchek
Sent	Friday, June 06, 2003 10 00 AM
To	McCallister, Russell, #ER Contact Records, Gilbreath, Chris, Woodland, Dan E , Radtke, David J , Strand, David, Foss, Dyan, Griggs, Karen, Wiemelt, Karen, Davis, Robert W , Roberts, Sarah, Luker, Steve, Paris, Steve, Serreze, Susan, Spence, Tracey, harlen ainscough@state co us
Cc	STEVE Gunderson, Steve Tarlton
Subject	Re Regulatory Contact Record 700-4

A NFA or NFAA has not been agreed to by us

Based on the information provided at the meeting we agreed that it did not look like further actions were warranted for B771, but not necessarily for B774, where VOCs and Am/Pu had been identified We were also told that an additional sample was being collected next to the big Am detection As such, we wanted to be able to review this data, as well as the additional results of the sample being collected before making any decision regarding NFA or NFAA

As yet, we have not been provided results for any additional sampling that has been performed

>>> "Serreze, Susan" <Susan Serreze@rfets gov> 06/05/03 09 45AM >>>
Attached is a regulatory contact record for IHSS Group 700-4 <<RCR consultative process700-4 doc>>

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time: May 29, 2003

Site Contact(s): Norma Castaneda, Russ McCallister, Karen Wiemelt, Susan Serreze,
Phone: 303-966-4226, 303-966-9692, 303-966-9883, 303-966-2677

Regulatory Contact: Elizabeth Pottorff, Dave Kruchek, Harlen Ainscough
Phone: 303-692-3429, 303-692-3328, 303-692-3337

Agency: CDPHE

Purpose of Contact. Consultative Process Meeting IHSS Group 700-4

Discussion

A meeting was held on May 29, 2003, to discuss the IHSS Group 700-4 characterization data Based on the preliminary data presented, CDPHE agreed that an accelerated action at IHSS Group 700-4 is not warranted DOE will provide IHSS Group 700-4 preliminary data maps with building structures to CDPHE in PDF format

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Distribution

H Ainscough, CDPHE
S Gunderson, CDPHE
D Kruchek, CDPHE
E Pottorff, CDPHE
C Spreng, CDPHE
T Rehder, USEPA
G Kleeman, USEPA
N Castenada, RFFO
R DiSalvo, RFFO
R McCallister, RFFO
S Surovchak, RFFO
R Tyler, RFFO

L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
R Davis, K-H RISS
C Deck, K-H Legal
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
D Shelton, K-H ESS
K Wielmelt, K-H RISS

K Griggs, K-H Team
G Kelly, K-H Team
S Luker, K-H Team
S Paris, K-H Team
D Radtke, K-H Team
S Serreze, K-H Team
D Strand, K-H Team
E Woodland, K-H Team
Administrative Record
ER Meeting Minutes

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time: May 29, 2003

Site Contact(s): Susan Serreze
Phone: 303-966-2677

Regulatory Contact: Elizabeth Pottorff, Dave Kruchek, Harlen Amscough
Phone: 303-692-3300

Agency: CDPHE

Purpose of Contact: Consultative Process Meeting– Meeting Notes

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Discussion

May 29, 2003 Comment Resolution Meeting
For
IHSS Group 500-7 Data Summary Report
IHSS Group 800-2 Data Summary Report
IHSS Group 600-2 Closeout Report
IHSS Group 300-2 Draft IASAP Addendum
IHSS Group 400-3 Draft IASAP Addendum
IHSS Group 500-2 Draft IASAP Addendum
IHSS Group 700-4 Field Completion
IHSS Group 900-3 Field Completion

A meeting was held on May 29, 2003 to discuss several topics including the IHSS Group 500-7 Data Summary Report, IHSS Group 800-2 Data Summary Report, IHSS Group 300-2 Draft IASAP Addendum, IHSS Group 400-3 Draft IASAP Addendum, IHSS Group 500-2 Draft IASAP Addendum, Subsurface Soil Risk Screen, Data Quality Assessment, IHSS Group 700-4 Field Completion, and IHSS Group 900-3 Field Completion

I Attendees

CDPHE Dave Kruchek, Elizabeth Pottorff, Harlen Amscough
DOE Norma Castaneda, Russ McCallister
K-H Karen Wiemelt
K-H Team Gerry Kelly, David Radtke, Susan Serreze

II Report Status

Meeting minutes from the 5/15/03 meeting were handed out Upcoming documents were briefly discussed and included upcoming Addenda for IHSS Group 400-6, 600-4, OPWL, Closeouts and Data Summaries for 700-4 and 900-3, and field completion concurrence for 400-8, 300-3, and 300-4

III Issues

There were no program-wide issues

IV Specific Comments

IHSS Group 500-7 Data Summary Report

The following resolutions were agreed to

1 The laboratory control sample and matrix spike frequencies will be added to the DQA Additionally, the text will be modified to provide more data on analyte tolerances, where available Once these changes are finished, the document will be sent for final verification and approval

IHSS Group 800-2 Data Summary Report

The following resolutions were agreed to

1 The laboratory control sample and matrix spike frequencies will be added to the DQA Additionally, the text will be modified to provide more data on analyte tolerances, where available

2 Text will be added to the validation summary stating that when V&V is complete, the data will be updated in SWD and the resulting data will be evaluated as part of the CRA

3 E Pottorff concurred with using the hot spot methodology for the barium exceedance

4 Once these changes are finished, the document will be sent for final verification and approval

IHSS Group 600-2 Closeout Report

1 The revised DQA for IHSS Group 600-2 Closeout Report was provided to CDPHE The laboratory control sample and matrix spike frequencies will be added to the DQA Additionally, the text will be modified to provide more data on analyte tolerances, where available

IHSS Group 500-2 IASAP Addendum

1 Changes to the draft IHSS Group 500-2 IASAP Addendum are acceptable DOE will ask CDPHE for an approval letter

IHSS Group 400-3 IASAP Addendum

1 Text will be added that states that most samples outside of the buildings will be collected as part of IASAP Addendum for 400-6

2 VOCs will be added to the sampling specifications at OPWL sampling locations

3 With these changes, the draft IHSS Group 400-3 IASAP Addendum is acceptable DOE will ask CDPHE for an approval letter

IHSS Group 300-2 IASAP Addendum

1 A building walkdown will be conducted to identify cracks in the concrete, floor drains, and other features of potential concern

2 Old building drawings will be reviewed to identify features of potential concern including drains

IHSS Group 900-3 Field Completion

1 There are several locations where concentrations are greater the ecological receptor AL

2 Based on the preliminary data, an accelerated action is not warranted

3 The data summary report will include that the "presumed native soil, contaminated in the 1960's was sampled"

4 RCRA activities will not be described, but the appropriate documents will be referred to

IHSS Group 700-4 Field Completion

1 Based on the preliminary data, an accelerated action is not warranted

2 The preliminary data maps will be updated to show OPWL, tanks, other features, and all sampling locations

3 Additional information on the difference between field HPGe and fixed laboratory measurements will be provided to CDPHE

4 Information from the original limited UBC sampling will be included in the data summary report

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IV Meetings

The next meeting is scheduled for Thursday, June 12, 2003, from 10 30 AM to 12 00 PM

Distribution:

H Amscough, CDPHE
S Gunderson, CDPHE
D Kruchek, CDPHE
E Pottorff, CDPHE
C Spreng, CDPHE
G Kleeman, USEPA
N Castaneda, RFFO
R McCallister, RFFO

L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
R Davis, K-H RISS
C Deck, K-H Legal
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
D Shelton, K-H
K Wiemelt, K-H RISS

W Chromec, K-H Team
K Griggs, K-H Team
G Kelly, K-H Team
B Koehler, K-H Team
S Luker, K-H Team
G Pudlick, K-H Team
D Reeder, K-H Team
M Ruthven, K-H Team
S Serreze, K-H Team
E Woodland, K-H Team
Administrative Record
ER Meeting Minutes

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time. May 15, 2003

Site Contact(s): Susan Serreze
Phone: 303-966-2677

Regulatory Contact: Carl Spreng, Elizabeth Pottorff, Dave Kruchek, Harlen Ainscough
Phone: 303-692-3300

Agency: CDPHE

Purpose of Contact: Consultative Process Meeting– Meeting Notes

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Discussion

May 15, 2003 Comment Resolution Meeting
for
IHSS Group 000-1 Closeout Report
IHSS Group 600-1 Closeout Report
IHSS Group 400-3 Draft IASAP Addendum
IHSS Group 500-2 Draft IASAP Addendum
Subsurface Soil Risk Screen

A meeting was held on May 15, 2003 to discuss several draft reports including the IHSS Group 000-1 Closeout Report, IHSS Group 600-1 Closeout Report, IHSS Group 400-3 Draft IASAP Addendum, IHSS Group 500-2 Draft IASAP Addendum, and the subsurface soil risk screen

I Attendees

CDPHE Dave Kruchek, Elizabeth Pottorff, Carl Spreng, Harlen Ainscough
DOE Norma Castaneda
K-H Team Gerry Kelly, Mark Ruthven, Susan Serreze

II Report Status

CDPHE was asked when comments on the Characterization Data Summary Report for IHSSs 165 and 176 would be ready Carl Spreng stated that he would send comments soon

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III Issues

In accordance with the proposed RFCA Modification, there are Closeout Reports and Data Summary Reports At the suggestion of CDPHE, reports that contain data but are not intended to support an accelerated action decision will be called "Characterization Data Summary Report"

CDPHE changes to the Subsurface Soil Risk Screen were discussed and the Subsurface Soil Risk Screen for IHSS Group 600-2 was modified

IV Specific Comments

IHSS Group 000-1 Closeout Report

The following resolutions were agreed to

1 The Executive Summary will be changed to clarify what activities were conducted in accordance with ER RSOP Notification #02-08

2 A comparison to proposed ALs will be added to the Executive Summary

3 "Duct" will be changed to "dust" in the second to last sentence of the 4th paragraph in the Executive Summary and the reference to air monitoring will be removed

4 Section 1 0 will clarify that the ponds themselves were not within the scope of this action

5 Results will be compared with the proposed ALs in Section 2 0 In addition, the text will state that exceedances of the Ecological Receptor will be investigated under the IA Ecological Risk Assessment process

6 Information on the depth of pipelines removed and the extent to which remaining lines were grouted will be provided, where available in Section 3 0 Analytical results of incidental water analyses will not be included Because water removed was combined in poly-tanks, results cannot be traced to specific sources In addition, results were not used to make remediation/NFAA decisions

7 Figure 4 and Table 4 will be reviewed and corrected, as appropriate to include all sampling locations

8 The title of Figure 5 will be corrected to indicate that the data are characterization results greater than background means plus two standard deviations or detection limits

9 A statement will be added to Section 4 0 stating that the hot spots were designated based on current RFCA Tier I and Tier II ALs Confirmation sampling results will not be compared to proposed WRW or ecological ALs in this section because the remediation was confirmed by comparison to Tier I and Tier II ALs This comparison is generally made in several other locations in this document in accordance with

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agreements A statement will be added indicating that further AL comparisons are in the "Residual Contamination" section Additionally, a statement indicating what analytes are greater than RFCA Tier II ALs, will be added

10 Section 5 0 will be revised to include reference to the RCRA Units and associated samples

11 Confirmation sampling was conducted where contaminated soils were removed and all confirmation sampling results were reported Other areas sampled (e g , underneath items removed) yielded characterization results, and these are reported in Table 4 and Figure 5 Waste characterization results are presented in Table 14 However, because similar wastes were combined in containers, results can not be traced to specific sources and were not used to make remediation/NFAA decisions No text changes are required

12 Information on the depth of remaining pipelines and their construction material will be provided in Section 6 2, where available Sections 3 and 9 discuss the disposal of water encountered during removal activities Because water removed was combined in poly-tanks, analytical results can not be traced to specific sources and were not used to make remediation/NFAA decisions Therefore, results were not reported

13 The analyte group responsible for SOR exceedances will be identified and discussed in Section 8 1 Analytical results will also be compared to the new ALs

14 The color of the insets will changed to blue and we will try to take out the crosses in Figures 12 through 15

15 Section 11 0 and the title clearly state that these samples are no longer representative No text changes are necessary

16 Section 13 1 will be changed, as appropriate, to reflect actual work performed under ER RSOP Notification #02-08 and related characterization results The DQA section is being modified using the newly agreed-to DQA model DERs will be included where the SWD data permits

IHSS Group 600-1 Closeout Report

1 Comparison of results to proposed WRW and ecological ALs was added in the executive summary

2 Request for NFAA concurrence was added to Section 1

3 Information on the disposition of concrete from B663 will be added, if available, to Section 2 3 2 Only asphalt associated with concrete removal was removed Asphalt remains at the southeastern corner of the site A map showing removed features is being developed

4 The text in Section 2 4 was changed to reference Figure 6

5 Table 8 will be updated to reflect all waste data available

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6 Soil from the hot spot excavation was loaded into crates for disposal If the data are available, the waste information in Table 8 will be better associated with field activities

7 A new map is being developed that will show features removed and remaining

8 Figure 7 was modified so that locations with contamination greater than background or MDL are yellow and those less than background or MDL are gray

9 Comparison of results to proposed WRW and ecological ALs was added to Section 3

10 The in-process confirmation data is in Tables 5 and 6

11 An AL comparison is not included in the stewardship evaluation

12 Sample depth information was added to Table 9 All results are for surface soil except at one location Sample depth will be added to Figure 7 for the one subsurface location

13 The DQA Section is being revised in response to CDPHE comments

IHSS Group 400-3 IASAP Addendum

1 "UBC" will be replaced with "buildings" in Section 1 2, page 2, third paragraph, fourth sentence and in Item 1

2 The use of the 22-meter grid was approved by CDPHE Additional biased samples will be collected, as necessary Additionally, when in the building, the opportunity to collect additional samples offset from the original under building characterization effort will be considered, based on actual conditions

3 Tanks 4, 5, and 6 and OPWL leaks P-5-1 and P-5-2 will be distinguished on Figure 1

4 Only results that exceed background means plus two standard deviations or detection limits are shown on figures Additionally, only data of "decision-making quality" are plotted Other data are used as information in defining COCs Soil outside of Building 444 and IHSS Group 400-3 will be characterized as part of IHSS Group 400-6 Text will be added that states that soil outside of Building 444 and IHSS Group 400-3 will be characterized as part of IHSS Group 400-6

5 In this case, it is believed that the tank shapes do not accurately represent the true locations of the tanks The bias samples within the building were placed at the OPWL tanks relative to photographs and actual site visits prior to the preparation of the SAP Addendum Table 3 will be updated to include sampling depth

6 The samples for OPWL tanks were included in the UBC bias samples (found on Figure 5 and in Table 4) These specific samples can be identified in a table that presents the bias sample rationale Table 3 will be updated to provide more detail

7 Figure 2 will be changed to provide the correct AL for di-n-butylphate

8 VOCs are in Table 2 for this IHSS There are no drains in this area

9 Analyses of soil for pH have not proven instructive at other sites There are no ALs for pH However, VOCs will be added to the PCOC for IHSS 136 The depth that will be sampled will be 0 5' to 2 5'

10 RFETS staff is presenting as much information as is known Statistical sampling will be the most effective sampling strategy for finding contamination at IHSS 136 2 RFETS staff will try to determine the exact location and depth of the pond

11 PCOCs for OPWL leaks are radionuclides and metals VOCs will be added at these locations

12 As stated in the addendum, proposed sampling locations are the starting point for characterization Additional samples will be taken as needed VOCs will be added if field instrumentation indicates that VOCs are present

13 Laboratory methods in Table 3 will be reviewed and corrected

14 Two additional samples will be added west of the boundary of 400-116 2

15 The concrete dock is so thick, it is hard to core through and likewise, hard for contamination to migrate through RFETS staff has been unable to locate "the pit" or any signs of its existence Building personnel have been consulted as well as others The surface of the dock was sampled during the RLCR and results indicated no presence of contamination The area of the reported spills was cleaned after the spill There are UBC samples in this location

16 Soil surrounding UBC 444 will be sampled as part of IHSS Group 400-6

17 OPWL will be sampled in accordance with the proposed RFCA modification All other OPWL areas of interest are in the building, therefore, they appear in the UBC samples Table 3 will be updated to clarify

18 Additional detail will be added to Table 3 to provide a sampling rationale

19 These items are included where available Existing drawings are not always accurate Many of these features are identified during building walkdowns These features will be identified in Table 3

IHSS Group 500-2 IASAP Addendum

1 The text will be changed to say that existing data "may be used"

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2 Building 551 is not a UBC and not part of IHSS Group 500-2 Additional text will be added to justify why samples will not be collected under the building

3 The dock area is shown on the figures and will be identified A biased sample will be added in the dock area

4 The rail line runs along the western side of the building There are several samples located along the rail line The rail line will be added to the maps

5 Sampling locations CA41-034 and BZ42-003 are very close to the northern end of Building 551 To our knowledge, a dock has not existed on the north side of the building

6 The approximate outline of the detention pond will be drawn in on the maps

IV Meetings

The next meeting is scheduled for Thursday, May 29, 2003 from 10 30 AM to 12 00 PM

Distribution

H Ainscough, CDPHE
S Gunderson, CDPHE
D Kruchek, CDPHE
E Pottorff, CDPHE
C Spreng, CDPHE
T Rehder, USEPA
G Kleeman, USEPA
N Castenada, RFFO
R DiSalvo, RFFO
R McCallister, RFFO
S Surovchak, RFFO
R Tyler, RFFO

L Brooks, K-H ESS
M Broussard, K-H RISS
L Butler, K-H RISS
R Davis, K-H RISS
C Deck, K-H Legal
D Mayo, K-H RISS
J Mead, K-H ESS
S Nesta, K-H RISS
L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
D Shelton, K-H
K Wiemelt, K-H RISS

K Griggs, K-H Team
G Kelly, K-H Team
S Luker, K-H Team
D Radtke, K-H Team
D Reeder, K-H Team
M Ruthven, K-H Team
S Serreze, K-H Team
T Spence, K-H Team
E Woodland, K-H Team
Administrative Record
ER Meeting Minutes

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time: March 7, 2003

Site Contact(s). Nick Demos, Dave Strand
Phone: 303-966-4605, 303-966-6422

Regulatory Contact: Gary Kleeman, Carl Spreng, and Dave Kruchek
Phone: 303-312-6246, 303-692-3358, 303-692-3328

Agency(s): EPA, CDPHE

Purpose of Contact: Discuss Boundary Relocation for IHSS 700-163 2 (Buried Americium Concrete Slab North of Building 771)

Discussion

Based upon information provided by a retired employee of Rocky Flats (Jack Weaver, 35 yrs), the primary investigation area for IHSS 700-163 2 (Buried Americium Concrete Slab) has been changed as agreed in meetings held with EPA and CDPHE on February 27, 2003 The Historical Release Report (HRR) originally located the IHSS in an area currently under trailer T771N (immediately East of Trailer T771A) Mr Weaver formerly worked within Building 771 Management and was present when the Americium Tank was removed as well as when the concrete slab was buried Specifically, he has described an area where a large hole (over eight feet in depth) was excavated immediately northeast of Trailer 771A and under the current North Patrol Road Based upon his recollection, 5 geoprobe boreholes have been placed immediately North of the 1992 HRR IHSS location Three additional geoprobe boreholes have been sampled adjacent to Trailer 771N in the originally specified location of the IHSS Ground Penetrating Radar has been scheduled for both areas in the event that geoprobing is unsuccessful If the attempts described above are not successful in locating the concrete slab, it was agreed that the above actions would constitute sufficient effort for proposing No Further Action of IHSS 700-163 2 in the 2003 HRR

Distribution

S Gunderson, CDPHE	L Brooks, K-H ESS	D Kruchek, CDPHE M
Broussard, K-H RISS	E Pottorff, CDPHE	L Butler, K-H RISS
C Spreng, CDPHE	C Deck, K-H Legal	T Rehder, USEPA
D Mayo, K-H RISS	G Kleeman, USEPA	J Mead, K-H ESS

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S Serreze, K-H Team
Strand, K-H Team
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S Surovchak, RFFO
N Demos, K-H Team

N Castenada, RFFO
R DiSalvo, RFFO
L Kilpatrick, RFFO
J Legare, RFFO
D Shelton, K-H

S Nesta, K-H RISS D
L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
Russ McCalister, RFFO

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time: May 1, 2003

Site Contact(s): Lane Butler, Marla Broussard, Susan Serreze
Phone: 303-966-5345, 303-966-6007, 303-966-2677

Regulatory Contact: Carl Spreng, Elizabeth Pottorff, Dave Kruchek, Harlen Ainscough
Phone: 303-692-3300

Agency: CDPHE

Purpose of Contact: Consultative Process Meeting– Meeting Notes

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Discussion

May 1, 2003, Comment Resolution Meeting
for
the Soil Risk Screen

A meeting was held on May 1, 2003 to discuss several draft reports However, the soil risk screen discussion took all available time

I Attendees

CDPHE Harlen Ainscough, Dave Kruchek, Elizabeth Pottorff, Carl Spreng
DOE Norma Castaneda, Rick DiSalvo, Russ McCallister, Reg Tyler
K-H Marla Broussard, Lane Butler
K-H Team Susan Serreze

II Report Status
CDPHE was asked when comments on the Characterization Data Summary Report for IHSSs 165 and 176 would be ready Carl Spreng stated that he would send comments soon

III Issues

1 The DQAs are being revised Three examples were handed out for review

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2 The soil risk screen process was discussed in detail IHSS Group 600-2 was used as an example The example IHSS Group 600-2 soil risk screen was revised with concurrence from all parties The revised soil risk screen language follows

"The Soil Risk Screen (SRS) follows the steps identified in Figure 3 in Attachment 5 of the RFCA Modification (DOE et al 2003)
Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 WRW Soil Action Levels?
Yes, all COCs are below WRW ALs
Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standard (SWS)?
Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by PAC 400-802 Both pathways are unlikely based on the low levels of soil contaminants and this IHSS Group being located in a flat-lying area not prone to landslides or erosion
Groundwater monitoring results from nearby well 85202 do not indicate concentrations of analytes above RFCA groundwater Tier I ALs Results from this well indicate that cis-1,2-dichloroethene, tetrachloroethene, vinyl chloride and trichloroethene are greater than RFCA Tier II groundwater ALs, but less than Tier I groundwater ALs as shown in the following Table

Analyte	Result ug/L	Tier I AL ug/L	Tier II AL ug/L
Cis-1,2-dichloroethene	160	7000	70
Tetrachloroethene	78	500	5
Vinyl chloride	16	200	2
Trichloroethene	35	500	5

The nearest surface water Point of Evaluation (POE), GS50, is located approximately 3,000 feet northeast and the nearest Point of Compliance (POC), SW027, is located approximately one mile east-southeast of IHSS Group 600-2 GS50 is designed to monitor water from the Solar Evaporation Ponds and Triangle areas Recent data from SW027, which monitors water from a large part of the IA, indicate that radionuclides are present in very small quantities at this monitoring station (total uranium 428) However the analytes in well 85202 groundwater were not reported at SW027

Further groundwater evaluation will be part of the groundwater plume remedial decision and future sitewide evaluation

Screen 5 – Are COC concentrations below Table 3 Action Levels for Ecological Receptors?
Yes, all COC concentrations are below the ALs for Ecological Receptors "

It was agreed that the other cloesout report soil risk screen formats would following this format and language

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3 The need for a soil risk screen for surface soil was discussed The following language, but not a soil risk screen, was agreed to "Contamination migration via erosion is the possible pathway whereby surface water could become contaminated by PAC 900-175 However, because PAC 900-175 is not located in an area prone to landslides or high erosion and the surface soil COCs are present in very small concentrations and are limited in their areal extent further soil removal is not necessary to protect surface water " K-H sent this language to CDPHE on May 2, 2003 for final concurrence

It was agreed that at other IHSSs or IHSS groups where only surface soil was evaluated, the soil risk screen is not needed, but that this language along with the justification of why only surface soil was considered, will be added

IV Meetings

The next meeting is scheduled for Thursday, May 15, 2003, from 10 30 AM to 12 00 PM

Distribution

H Ainscough, CDPHE
S Gunderson, CDPHE
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G Kleeman, USEPA
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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ENVIRONMENTAL RESTORATION
REGULATORY CONTACT RECORD

Date/Time: March 7, 2003

Site Contact(s): Nick Demos, Dave Strand
Phone: 303-966-4605, 303-966-6422

Regulatory Contact: Gary Kleeman, Carl Spreng, and Dave Kruchek
Phone: 303-312-6246, 303-692-3358, 303-692-3328

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L Norland, K-H RISS
K North, K-H ESS
A Primrose, K-H RISS
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Appendix B – Project Photographs

Figure 1 Corning outside building

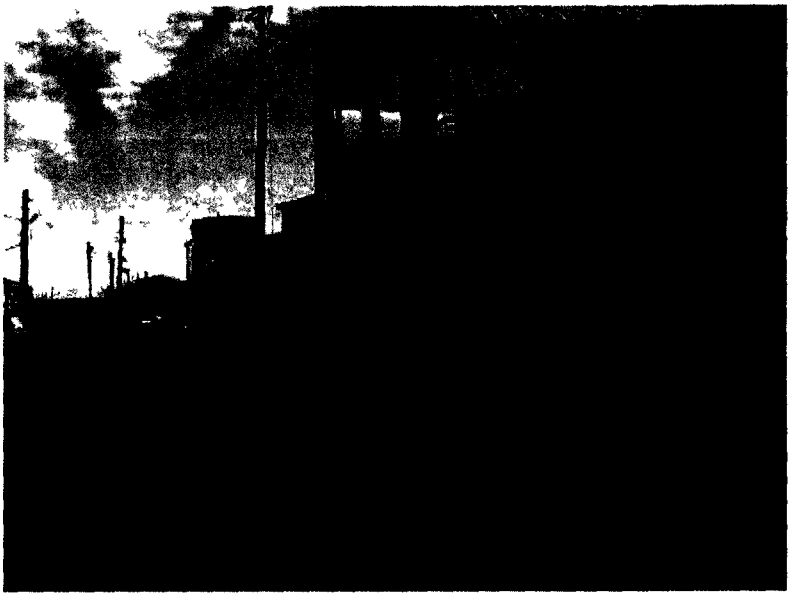

Figure 2 Corning outside of buildings

Figure 3 Soil sampling

Figure 4 Soil Sampling

Figure 5 Tank removal

Figure 6 Soil excavation beneath tanks

Figure 7 Fiddler reading at soil excavation area beneath tanks

Figure 8 Fiddler reading at soil excavation area beneath tanks

Figure 9 Soil excavation area at Tanks

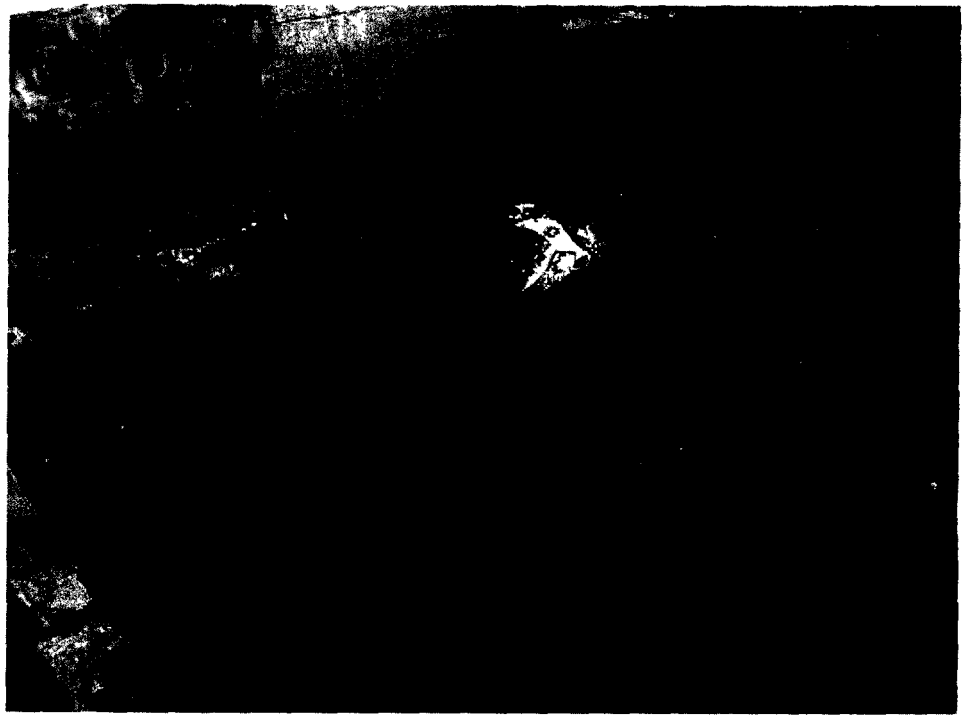

Figure 10 Cleaning remainder of soil excavation

Figure 11 Cleaning remainder of soil excavation